

## Scenario E: Communication

### Objectives:

- Prepare key messages to share with internal and external stakeholders
- List information security considerations when sharing information with external stakeholders

### Supporting documents:

- Epidemiology questionnaire
- Line listing data

### Background details

A 37 year old soldier presents to a military hospital with severe respiratory distress. He has had a productive cough and generalized symptoms such as headache, intermittent fever, and malaise for approximately five days before presenting to the hospital. Clinical specimens are collected for urinalysis, sputum culture, and blood culture. Significant past medical history includes chronic obstructive pulmonary disease, and diabetes mellitus; social history includes smoking approximately a pack per day since age 15. He is started on antibiotics (azithromycin) for community-acquired pneumonia but does not respond to therapy. Laboratory cultures are negative. This individual's respiratory status steadily deteriorates and he requires intubation, a tube inserted in his throat to his lungs and hooked up to a machine to help him breathe. The patient dies after five days in the hospital. Given the recent attention on a novel coronavirus in the Middle East, officials request the family permit an autopsy be performed. The family declines permission, but does allow doctors to collect lung biopsies and a cardiac stick. The samples are sent for testing for unusual pathogens such as MERS-CoV or *Legionella pneumophila*.

A public health investigation into the individual's activities reveals he had attended a demolition and munitions school 5 days prior to cough onset. It is determined that the individuals at this school may have also been exposed to the same unknown agent. Interviews are conducted of the individuals in the same class who have since returned to their duty stations. It is determined that several of them who stayed in the same resident hall have similar symptoms with or without cough but all have recovered. Individuals in the class who stayed at a different resident hall were not ill.

Not all of the individuals attending the class were from Ministry of Defense. Several individuals attended from Ministry of Interior's Counter Terrorism Department and Civil Defense Authority.

The school is held in a small village in a sparsely populated area. A relative of the school's director general and the city's mayor owns and manages the implicated residence.

Note to instructors and observers (*not shared with participants*):

Please join “your” group or the one with which you most closely identify

Refer to scenario objectives:

- Prepare key messages to share with internal and external stakeholders
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You should not guide or direct the discussion, but keep them focused on discussing information as provided. The task in the small groups will be to keep the group focused on selecting information from what they have available that is appropriate to share and how they determined it was okay to share and with whom it is okay to share and how the sharing of information is structured. They should also try to decide if they have non-essential or excess information and what they would do to protect that information or would they report all if they received more information than necessary.

Information sensitivity considerations to probe the group on include:

- Names of the infected individual (index case) and other students who may have recovered from similar symptoms;
- Town, Mayor, Guest House
- Was the course itself sensitive? Would they want to share information that all these individuals were together at a training?

Civilian group:

- Ag
- Health
- Ministry of Interior

Military group:

- DMI
- Medical Services

## Respiratory Syndrome Short Form

|                                     |                        |                |  |
|-------------------------------------|------------------------|----------------|--|
|                                     | Today's Date: MM/DD/YY | City: Sana'a   |  |
| Interviewer's name: Monear Makvandi |                        | Phone: 5552843 |  |
| Physician's name: Ben Brodsky       |                        | Phone: 5552845 |  |

|  |
|--|
| <b>Definition—Does the patient have:</b>   |
| <b>1. Acute respiratory infection with fever (<math>\geq 38^{\circ}\text{C}</math>, <math>100.4^{\circ}\text{F}</math>)?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown<br><b>2. Cough?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown<br><b>3. Clinical or radiographic evidence of pneumonia or acute respiratory distress syndrome (ARDS)?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown |

|   |
|---|
| <b>Patient Demographic Information</b>  |
| <b>1. Sex:</b> <input checked="" type="checkbox"/> M <input type="checkbox"/> F <b>2. Age:</b> <u>43</u> <input checked="" type="checkbox"/> yr <input type="checkbox"/> mo |

|  |
|--|
| <b>Clinical Presentation, History and Risk Factors</b>   |
| <b>4. Date of symptom onset:</b> /06/11/2013<br><b>5. Symptoms</b> (Check all that apply): <input checked="" type="checkbox"/> Fever <input type="checkbox"/> Dry cough <input checked="" type="checkbox"/> Productive cough <input type="checkbox"/> Chills <input type="checkbox"/> Sore throat <input checked="" type="checkbox"/> Headache<br><input checked="" type="checkbox"/> Muscle aches <input checked="" type="checkbox"/> Shortness of breath <input type="checkbox"/> Vomiting <input type="checkbox"/> Abdominal pain <input type="checkbox"/> Diarrhea <input type="checkbox"/> Other _____<br><b>6. Occupation</b> <u>military</u> <b>7. Travel History</b> <u>Ma'rib 25 May -13 June, Abu Dhabi, Dubai May 2013</u><br><b>7. Comorbidities</b> (Check all that apply): <input type="checkbox"/> Immunocompromised <input type="checkbox"/> Pregnant <input type="checkbox"/> Unknown<br><input checked="" type="checkbox"/> Other <u>diabetes, chronic obstructive pulmonary disease</u> |

|  |   |
|--|---|
| <b>Clinical Outcomes</b>   |   |
| <b>8. Is/Was the patient:</b><br>a. Hospitalized? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, date: <u>06/23/2013</u><br>b. Admitted to ICU? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown<br>c. Intubated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown | <b>9. Is/Has patient receiving/received a diagnosis of:</b><br>Pneumonia? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown<br>ARDS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown<br>Renal failure? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown |

|  |
|--|
| <b>12. Has the patient died?</b><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, date: <u>07/01/2013</u> |
|--|

| Laboratory Testing  |         |          |                          |                                     |                          |         |          |                                     |                                     |
|---|---------|----------|--------------------------|-------------------------------------|--------------------------|---------|----------|-------------------------------------|-------------------------------------|
| Tests Performed   | Results |          |                          |                                     | Tests Performed          | Results |          |                                     |                                     |
|   | +       | □        | Pending (Pe)             | Not done                            |                          | +       | □        | Pending (Pe)                        | Not done                            |
| Influenza <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> B |         | <b>X</b> | <input type="checkbox"/> | <input type="checkbox"/>            | Streptococcus pneumoniae |         |          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| RSV   |         |          | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Legionella pneumophila   |         |          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Human metapneumovirus   |         |          | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Blood culture            |         |          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Parainfluenza 1-4   |         |          | <input type="checkbox"/> | <input checked="" type="checkbox"/> | If positive _____        |         |          | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Adenovirus  |         |          | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other: <u>sputum</u>     |         | <b>X</b> | <input type="checkbox"/>            | <input type="checkbox"/>            |

|                     |
|---------------------|
| <b>MERS Testing</b> |
|---------------------|

Notes:

Lung biopsy and cardiac stick collected post-mortem.

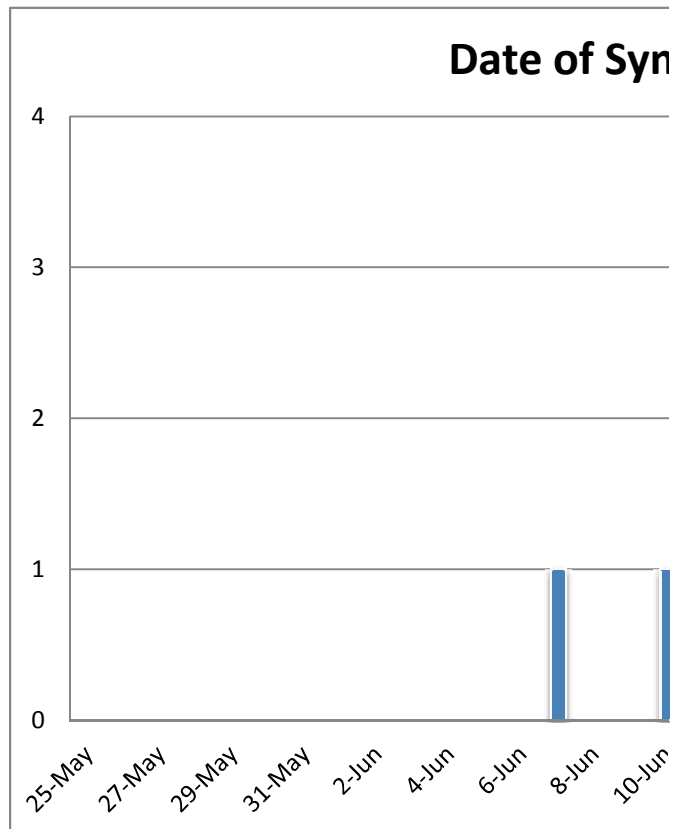
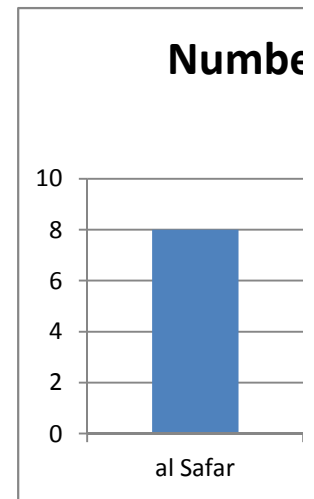
Sent to NAMRU-3 for additional testing

|    | <b>Name</b>                    | <b>Age</b> | <b>Home City</b> | <b>Rank</b> |
|----|--------------------------------|------------|------------------|-------------|
| 1  | Eyman Nazir Al Aman            | 29         | Sana'a           | Captain     |
| 2  | Omar Sharaf Al Husn            | 35         | Taiz             | Major       |
| 3  | Eimad Sadiqq Al Warafi         | 28         | Hudaydah         | Captain     |
| 4  | Salim Ahmed Al Gafri           | 31         | Mukha            | Captain     |
| 5  | Rafiq Al Asbahi                | 46         | Aden             | Major       |
| 6  | Ahmed Awad Badeeb Al Mastqbal  | 51         | Zinjibar         | Lt. COL     |
| 7  | Rami Al Hamedi                 | 55         | Sana'a           | COL         |
| 8  | Faisal Aayd Al Khalaqi         | 36         | Sana'a           | Major       |
| 9  | Radhwan Mohanad Al Hamedi      | 38         | Sana'a           | Lt. COL     |
| 10 | Abdulla Zuhair Obed Al Karimi  | 33         | Tarim            | Captain     |
| 11 | Khaled Mohammad Awad           | 34         | Ma'rib           | Major       |
| 12 | Najib Mahfouz                  | 43         | Sana'a           | Major       |
| 13 | Yahya Al Buraihi               | 39         | Sana'a           | Lt. COL     |
| 14 | Abdullah Ahmed Al Sunaidar     | 57         | Sana'a           | COL         |
| 15 | Ali Abdo Al Moghni             | 61         | Taiz             | COL         |
| 16 | Ibrahim Yahya Al Kesbi         | 27         | Ibb              | Captain     |
| 17 | Mohammed Shafi Al Salim        | 32         | Taiz             | Captain     |
| 18 | Hazem Mohammed Rashad Al Rowad | 44         | Ibb              | Major       |
| 19 | Tariq Haider Bin Naji          | 54         | Dhamar           | Lt. COL     |
| 20 | Ahmed Saleh Al Baraee          | 43         | Dhamar           | Major       |
| 21 | Moh'd Ali Hassan Al Mothana    | 38         | Sana'a           | Major       |
| 22 | Kazem Saeed Al Badani          | 58         | Al Marashi       | COL         |

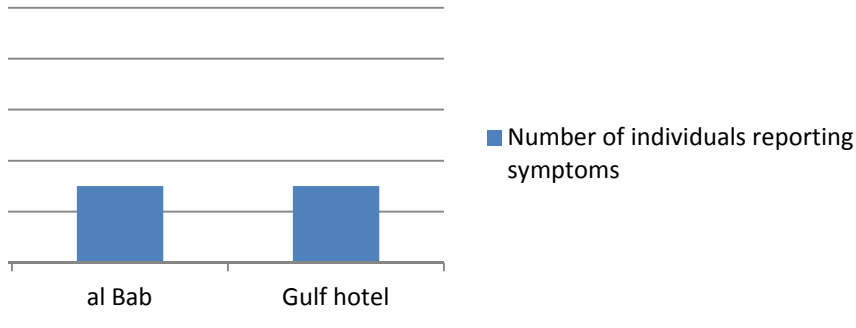
| <b>Department</b>            | <b>Dates Attended training course</b> | <b>Guest House</b> |
|------------------------------|---------------------------------------|--------------------|
| Counter Terrorism Department | 25 May -13 June                       | Al Safar           |
| Strategic Reserve Forces     | 25 May -13 June                       | Al Safar           |
| Special Operations Command   | 25 May -13 June                       | Al Bab             |
| Military Intelligence        | 25 May -13 June                       | Gulf Hotel         |
| Civil Defense Authority      | 25 May - 4 June                       | Al Safar           |
| Strategic Reserve Forces     | 25 May -13 June                       | Gulf Hotel         |
| Special Operations Command   | 25 May -13 June                       | Al Bab             |
| Special Operations Command   | 25 May -13 June                       | Al Bab             |
| Special Operations Command   | 25 May - 4 June                       | Al Safar           |
| Civil Defense Authority      | 25 May -13 June                       | Al Safar           |
| Civil Defense Authority      | 25 May -13 June                       | Gulf Hotel         |
| Military Intelligence        | 25 May -13 June                       | Al Safar           |
| Military Intelligence        | 25 May -13 June                       | Gulf Hotel         |
| Military Intelligence        | 1 June - 13 June                      | Al Safar           |
| Counter Terrorism Department | 25 May -13 June                       | Al Safar           |
| Counter Terrorism Department | 25 May -13 June                       | Al Safar           |
| Counter Terrorism Department | 25 May -13 June                       | Al Safar           |
| Counter Terrorism Department | 1 June - 13 June                      | Gulf Hotel         |
| Counter Terrorism Department | 25 May -13 June                       | Al Safar           |
| Strategic Reserve Forces     | 25 May -13 June                       | Al Bab             |
| Strategic Reserve Forces     | 1 June - 13 June                      | Al Bab             |
| Strategic Reserve Forces     | 25 May -13 June                       | Al Bab             |

| <b>date 1st symptom onset</b> | <b>cough</b> | <b>fever</b> | <b>malaise</b> | <b>headache</b> | <b>treatment</b> | <b>status</b> |
|-------------------------------|--------------|--------------|----------------|-----------------|------------------|---------------|
| not applicable                | No           | No           | No             | No              | No               | alive         |
| June 18th                     | Yes          | Yes          | No             | No              | No               | alive         |
| June 20th                     | No           | Yes          | Yes            | Yes             | Yes              | hospitalized  |
| not applicable                | No           | No           | No             | No              | No               | alive         |
| not applicable                | No           | No           | No             | No              | No               | alive         |
| May 15th                      | Yes          | No           | No             | No              | No               | alive         |
| not applicable                | No           | No           | No             | No              | No               | alive         |
| June 10th                     | No           | No           | Yes            | No              | No               | alive         |
| not applicable                | No           | No           | No             | No              | No               | alive         |
| June 13th                     | No           | No           | No             | Yes             | No               | alive         |
| not applicable                | No           | No           | No             | No              | No               | alive         |
| June 11th                     | Yes          | Yes          | Yes            | Yes             | Yes              | deceased      |
| June 7th                      | No           | Yes          | No             | No              | No               | alive         |
| June 14th                     | Yes          | Yes          | Yes            | No              | Yes              | alive         |
| June 14th                     | No           | Yes          | Yes            | Yes             | No               | alive         |
| June 18th                     | No           | Yes          | No             | Yes             | Yes              | alive         |
| June 18th                     | Yes          | Yes          | Yes            | No              | No               | alive         |
| June 12th                     | No           | No           | No             | Yes             | No               | alive         |
| June 20th                     | Yes          | No           | Yes            | Yes             | Yes              | hospitalized  |
| not applicable                | No           | No           | No             | No              | No               | alive         |
| June 7th                      | Yes          | No           | No             | No              | No               | alive         |
| not applicable                | No           | No           | No             | No              | No               | alive         |

|        | Number of individuals reporting symptoms | Guest house | Number of individuals reporting symptoms |
|--------|--|-------------|--|
| 25-May |  | al Safar    | 8  |
| 26-May |  | al Bab      | 3  |
| 27-May |  | Gulf hotel  | 3  |
| 28-May |  |             |  |
| 29-May |  |             |  |
| 30-May |  |             |  |
| 31-May |  |             |  |
| 1-Jun  |  |             |  |
| 2-Jun  |  |             |  |
| 3-Jun  |  |             |  |
| 4-Jun  |  |             |  |
| 5-Jun  |  |             |  |
| 6-Jun  |  |             |  |
| 7-Jun  | 1  |             |  |
| 8-Jun  |  |             |  |
| 9-Jun  |  |             |  |
| 10-Jun | 1  |             |  |
| 11-Jun | 1  |             |  |
| 12-Jun | 1  |             |  |
| 13-Jun | 1  |             |  |
| 14-Jun | 2  |             |  |
| 15-Jun |  |             |  |
| 16-Jun |  |             |  |
| 17-Jun |  |             |  |
| 18-Jun | 3  |             |  |
| 19-Jun |  |             |  |
| 20-Jun | 2  |             |  |
| 21-Jun |  |             |  |
| 22-Jun |  |             |  |



## Number of individuals reporting symptoms by Guest House



## Symptom Onset

