Form Approved  
OMB No. 0935-XXXX  
Exp. Date XX/XX/20XX

***Nursing Home Provider Post-Intervention Questionnaire***

1. What is your title?
2. List your clinical training (residency and fellowship).
3. How long have you been in practice?
4. How long have you been providing care for resident(s) in this facility?
5. What percent of your week is spent caring for residents of nursing homes?
6. In your opinion, how well do you feel that you know the antibiotic sensitivity/resistance pattern of common infections in this facility?
   * Response coded on 5-point Likert scale with”1” indicating very well to “5” indicating very poorly.
7. Are you familiar with antibiograms? Yes/No
8. Have you used antibiograms in the nursing home setting? Yes/No
   * In your opinion, on a scale of 1 to 5 with ‘1’ indicating very minimal usefulness and ‘5’ very useful, how useful are antibiograms ***in the nursing home setting*** for selecting the most effective antibiotic for a particular infection or organism? \_\_\_\_\_\_\_\_\_\_. Please explain.
   * In your opinion, on a scale of 1 to 5 with ‘1’ indicating very minimal usefulness and ‘5’ very useful, how useful are antibiograms, ***in general***, for selecting the most effective antibiotic for a particular infection or organism? \_\_\_\_\_\_\_\_\_\_\_. Please explain.
9. Have you used antibiograms at another health care setting? Yes/No
   * What setting?
     1. Hospital
     2. Home Health
     3. Clinic
     4. Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * In your opinion, on a scale of 1 to 5 with ‘1’ indicating very minimal usefulness and ‘5’ very useful, how useful are antibiograms ***in the setting noted abo****ve* for selecting the most effective antibiotic for a particular infection or organism? \_\_\_\_\_\_\_\_\_\_. Please explain.
10. If you are currently using antibiograms or have used them in the past, please answer the following:
    * How is the information communicated to you?
      1. Fax
      2. Email
      3. Mail
      4. Other \_\_\_\_\_\_\_\_\_\_\_\_\_
    * Is this method of communication convenient and efficient? Yes/No
    * How could communication of antibiograms be improved?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. If not using antibiograms, please complete the following statement:
   * I would use antibiograms if \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Did you use the antibiogram report provided for this facility? Yes/No
   * If yes, do you have any suggestions on how the program could be improved?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* + If no, why didn’t you use the antibiogram; what were the barriers that prohibited their use?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Vignettes***

Please review the following vignettes an answer based on your current clinical practice at the Brigham and Women’s Hospital. The goal of these questions is to identify your practice, not to quiz your medical knowledge – there is not a single right answer. Assume that the patients do not have other significant conditions and are not taking medications other than those mentioned.

1. Ms. Lee, a 71-year-old female, is a long-term resident of the nursing home. She has dementia and no recent hospitalizations. For review: she complained to a nurse of dysuria, urinary frequency and urinary urgency since 8 PM last night. You assess the patient and find that her vital signs are HR 88, RR 16, BP 136/84, T 100.2 F, SpO2 98%. A urine dip shows 2+ leukocytes and 2+ nitrites, 50 WBCs, 5 RBCs and 3+bacteria. The patient is generally well appearing and has some mild suprapubic tenderness. A urine culture is pending.
2. Would you prescribe this patient an antibiotic?
3. Prescribe an oral antibiotic.
4. Prescribe an IV antibiotic.
5. No antibiotic.
6. What disposition is most appropriate for this patient? (choose one)
7. Discharge the patient and transfer back to the nursing home.
8. Admit the patient to the hospital.
9. Please choose the most appropriate antibiotic(s) for the above described symptoms? [can choose more than one]

* Oral quinolone (e.g. ciprofloxacin)
* Bactrim (Trimethoprim and Sulfamethoxazole)
* Cephalexin
* Nitrofurantoin
* Beta Lactam (e.g. amoxicillin)
* Amoxicillin + clavulanate (Augmentin®)
* An oral 3rd Gen cephalosporin
* Other [please describe]

1. Mr. Jones is a 76 year old man who is a long-term resident of the nursing home facility. He has dementia and no recent hospitalizations. For review: His other medical problems include hypertension, and osteoarthritis. Mr. Jones was transferred to the ED because he has been coughing for 3 days and today developed a fever. He has a hacking cough, is bringing up yellow/green sputum and his vital signs are T 100.5 F, HR 88, RR 16, BP 136/84, SpO2 95%. His chest x-ray shows a right middle lobe infiltrate. His chem-7 and lactate are normal.
2. Would you prescribe this patient an antibiotic?
3. Prescribe an oral antibiotic.
4. Prescribe an IV antibiotic.
5. No antibiotic.
6. What disposition is most appropriate for this patient? (choose one)
7. Discharge the patient and transfer back to the nursing home.
8. Admit the patient to the hospital.
9. Please choose the most appropriate antibiotic(s) for the above described symptoms? [can choose more than one]

* 3rd or 4th generation quinolone (e.g. levofloxacin)
* Macrolide (e.g. azithromycin)
* Beta Lactam (e.g. amoxicillin)
* Amoxicillin + clavulanate (Augmentin®)
* Bactrim (Trimethoprim and Sulfamethoxazole)
* Doxycycline
* 3rd Gen cephalosporin (e.g. cefpodoxime)
* Other [please describe]

1. Ms. Williams is a 66 year old woman who a long-term resident of the nursing home. She has dementia and no recent hospitalizations. For review: She has a past medical history of osteoarthritis, and elevated cholesterol, for which she takes acetaminophen and simvastatin. She was transferred to the ED after a nurse noticed an area on her right ankle and lower leg that is red, warm, and tender. The rest of her leg is not remarkable and her calf is soft, non-tender and not swollen compared to the left side. Her vitals: T 100.5 F, HR 88, RR 16, BP 136/84, SpO2 97%. Her chem-7 and lactate are normal.
2. Would you prescribe this patient an antibiotic?
3. Prescribe an oral antibiotic.
4. Prescribe an IV antibiotic.
5. No antibiotic.
6. What disposition is most appropriate for this patient? (choose one)
7. Discharge the patient and transfer back to the nursing home.
8. Admit the patient to the hospital.
9. Please choose the most appropriate antibiotic(s) for the above described symptoms? [can choose more than one]

* 1st gen cephalosporin (cephalexin)
* Beta Lactam (e.g. amoxicillin)
* Amoxicillin + clavulanate (Augmentin®)
* 1st generation is quinolone (e.g. ciprofloxacin)
* 3rd or 4th generation quinolone (e.g. levofloxacin)
* Clindamycin
* Other [please describe]

1. Mr. Jackson is a 75-year-old who is a long-term resident of your facility, with no recent hospitalizations. For review: In addition he has a history of post-herpetic neuralgia and depression for which he takes gabapentin and citalopram. Mr. Jackson is transferred to the ED after having had a fever throughout the day: 101F in the morning and 101.8F when repeated this afternoon. His current vital signs are HR 90, BP 120/80, RR 14, SpO2 95%. He appears to be his normal self and does not have any specific complaints except that he is tired and has had some chills. You do not finding anything new on his exam. A urine dip shows 1+ nitrites and no leukocyte esterase, 5 WBCs, 3 RBCs, and 1+ bacteria. A chest x-ray shows no acute process. You ordered cultures (blood and urine). His chem-7 and lactate are normal. His WBC count is 12,000 without bands.
2. Would you prescribe this patient an antibiotic?
3. Prescribe an oral antibiotic.
4. Prescribe an IV antibiotic.
5. No antibiotic.
6. What disposition is most appropriate for this patient? (choose one)
7. Discharge the patient and transfer back to the nursing home.
8. Admit the patient to the hospital.
   1. Please choose the most appropriate antibiotic regimen for the above described symptoms? Please list names, doses and routes. If your regimen includes more than one antibiotic, please list all. [please describe]

Please review the following vignettes and answer based on your current clinical practice and with the availability of the following antibiogram.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample Facility Antibiogram** | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | |
| **Blood Isolates - Percent Susceptible (**antibiotic key at bottom of chart) | | | | | | | | | | | | | | | | | | | | | | |
| **Gram Negative Rods** | |  | **Isolates Tested\*** | | **AMP** | | **CTX** | **CAZ** | | **CZO** | **CRO** | | **FEP** | **GEN** | **LEV** | | | **NIT** | | **CTT** | | **SXT** |
| Escherichia coli | |  | 51 | | 41.2 | | \*\*\* | 92.2 | | 88 | 92 | | 92.2 | 90.2 | 66.7 | | | 98 | | 100 | | 66.7 |
| Klebsiella pneumoniae ss. Pneumoniae | | | 13 | | 0 | | \*\*\* | 92.3 | | 91.7 | 92 | | 92.3 | 92.3 | 84.6 | | | 33.3 | | 100 | | 76.9 |
| **Gram Positive Cocci and Rods** | | |  | | **AMP** | | **CHL** | **CLI** | | **ERY** | **LEV** | | **OXA** | **PEN** | **TCY** | | | **VAN** | | **SXT** | |  |
| Staphylococcus aureus | | | 61 | |  | | 93.2 | 74.6 | | 27.1 | 50.8 | | 49.2 | 11.9 | 98 | | | 100 | | 98.3 | |  |
| Stapylococcus coag. Neg | | | 130 | |  | | 99 | 72 | | 37 | 45 | | 77 | 19 | 88.9 | | | 100 | | 58.9 | |  |
| Enterococcus faecalis | |  | 20 | | 100 | | 80 |  | | 15 | 50 | | 0 | 100 | 18.2 | | | 90 | |  | |  |
| **Urine Isolates - Percent Susceptible (**antibiotic key at bottom of chart) | | | | | | | | | | | | | | | | | | | | | | |
| **Gram Negative Rods** | |  | **Isolates Tested\*** | | **AMP** | | **CTX** | **CAZ** | | **CZO** | **CRO** | | **FEP** | **GEN** | **LEV** | | **NIT** | | | **CTT** | | **SXT** |
| Escherichia coli | |  | 365 | | 23.5 | |  | 94.1 | |  | 94.1 | | 94.1 | 84.1 | 88 | | 95 | | | 100 | | 47.1 |
| Klebsiella pneumoniae ss. Pneumoniae | | | 68 | | 0 | | \*\*\* | 64 | |  | 64 | | 64 | 72.7 | 86 | | 37 | | | 100 | | 45.5 |
| **Gram Positive Cocci and Rods** | | |  | | **AMP** | | **CHL** | **CLI** | | **ERY** | **LEV** | | **OXA** | **PEN** | **TCY** | | | **VAN** | | **SXT** | |  |
| Staphylococcus aureus | | | 24 | |  | | 100 | 62.5 | | 25 | 37.5 | | 50 | 12.5 | 95 | | | 100 | | 95.8 | |  |
| Stapylococcus coag. Neg | | | 30 | |  | | \*\*\* | \*\*\* | | \*\*\* | \*\*\* | | \*\*\* |  | \*\*\* | | | \*\*\* | |  | |  |
| Enterococcus sp | |  | 47 | | 83 | | 83 |  | | 14.9 | 40.4 | | 0 |  | 33.3 | | | 78.7 | |  | |  |
| **Wound Isolates - Percent Susceptible (**antibiotic key at bottom of chart) | | | | | | | | | | | | | | | | | | | | | | |
| **Gram Negative Rods** | |  | **Isolates Tested\*** | | **AMP** | | **CTX** | **CAZ** | **CZO** | | **CRO** | | **FEP** | **GEN** | **LEV** | | | **NIT** | | **CTT** | | **SXT** |
| Escherichia coli | |  | 14 | | 42.9 | | \*\*\* | 100 | 91.7 | | 100 | | 100 | 85.7 | 64.3 | | | 100 | | 94.1 | | 64.3 |
| **Gram Positive Cocci and Rods** | | |  | | **AMP** | | **CHL** | **CLI** | **ERY** | | **LEV** | | **OXA** | **PEN** | **TCY** | | | **VAN** | | **SXT** | |  |
| Staphylococcus aureus | | | 93 | | 0 | | 97.8 | 86 | 43 | | 70 | | 63.4 | 9.7 | 100 | | | 100 | | 98.9 | |  |
| Stapylococcus coag. Neg | | | 54 | |  | | 100 | 100 | 66.7 | | 66.7 | | 66.7 | 0 | 100 | | | 100 | |  | |  |
| Enterococcus sp | |  | 19 | | 84.2 | | 78.9 |  | 26.3 | | 68.4 | | 0 |  | 25 | | | 73.7 | |  | |  |
| **AMC =amox/clav** | **CAZ =ceftazidime** | | | **CLI =clindamycin** | | **CTX =cefotaxime** | | | **FEP=cefepime** | | | **NIT =nitrofurantoin** | | | | **SXT = sulfa/trimethoprim** | | | | | | |
| **AMK =amikacin** | **CEP =cephalothin** | | | **CRO =ceftriaxone** | | **CXM =cefuroxime** | | | **GEN =gentamicin** | | | **OXA =oxacillin** | | | | **TCY =tetracycline** | | | | | | |
| **AMP =ampicillin** | **CHL =chloramphenicol** | | | **CTT =cefotetan** | | **CZO=cefazolin** | | | **IPM=imipenem** | | | **PEN =penicillin** | | | | **VAN =vancomycin** | | | | | | |
| **ATM = aztreonam** | **CIP= ciprofloxacin** | | | **CTT=cefotetan** | | **ERY =erythromycin** | | | **LEV = levofloxacin** | | | **PIP =piperacillin** | | |  | | | |  | |  | |
| \*\* **AMP and PEN are represented by susceptibility to OXA; \*\*\* no longer tested; Isolates that test R to Ery and S to CLI may be induced to R to CLI during treatment.** | | | | | | | | | | | | | | | | | | | | | | |

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