

## SW1 - Agar Experiment Worksheet - Section A

Agar Experiment Worksheet: Results

Eva is on a summer work placement at the local hospital laboratory.

It is her job to read the test results and fill in the paperwork. Eva has missed up some of the test results.

Her results sheet shows the following:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Patient | Peni-cillin | Meti-cillin | Erythro-mycin | Vanco-mycin | Amoxi-cillin | Diagnosis |
|  | No | No | No | No | No | Influenza |
|  | Yes | Yes | Yes | Yes | Yes | Strep throat |
|  | No | Yes | Yes | Yes | No | *Staphylococcus* wound infection |
|  | No | No | No |  | No | MRSA |

 

Yes means Sensitive – no zone of growth visible

No means Not sensitive – no zone visible

She has cultured the infectious organism isolated from each of the patients on agar plates and identified the diagnosis.

Can you repeat the antibiotic sensitivity test and match the patient to the results.

## SW1 - Agar Experiment Conclusions Worksheet- Section B

Agar Experiment Student Worksheet: Results

In the results section below, record the results of your sensitivity test and identify which antibiotic you would recommend the doctor to prescribe.

|  |  |
| --- | --- |
| Flu  (*Influenza* virus) | Zone of Inhibition  Size (mm) |
| Penicillin |  |
| Methicillin |  |
| Erythromycin |  |
| Vancomycin |  |
| Amoxicillin |  |

|  |  |
| --- | --- |
| Strep Throat  (*Streptococcus*) | Zone of Inhibition  Size (mm) |
| Penicillin |  |
| Methicillin |  |
| Erythromycin |  |
| Vancomycin |  |
| Amoxicillin |  |

Patient A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Patient B\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Staph Wound  Infection  (*Staphylococcus aureus*) | Zone of Inhibition  Size (mm) |
| Penicillin |  |
| Methicillin |  |
| Erythromycin |  |
| Vancomycin |  |
| Amoxicillin |  |

Recommended antibiotic

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

Recommended antibiotic

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

Patient C\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Patient D\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| MRSA  (Methicillin  Resistant  *Staphylococcus aureus*) | Zone of Inhibition  Size (mm) |
| Penicillin |  |
| Methicillin |  |
| Erythromycin |  |
| Vancomycin |  |
| Amoxicillin |  |

Recommended antibiotic

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

Recommended antibiotic

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