bioART
Advanced Reporting Tool

VITEK® 2 and VITEK® MS User Meeting
September 18, 2013
Toronto
Objectives

• To understand the role of the Advanced Report Tool (bioART)

• To be able to create a bioART rule

• To be able to Export and Import bioART rules

• To understand the difference between predefined and custom rules
Advanced Reporting Tool

• What is bioART?

bioMérieux’s

Advanced Reporting Tool

bioART is a customizable, rules-based, logic system that can be used to address laboratory workflow, communication and reporting issues
Advanced Reporting Tool

- **Uses for bioART rules:**
  - Laboratory procedures
  - bioMérieux customer communication letters
  - CLSI® antibiotic reporting recommendations
  - FDA Indications for Use
  - Product limitations
  - Formulary restrictions
  - Speed up reports
  - ............

- **bioART**
  - bioART helps to standardize the reporting of results to meet the needs of your laboratory
Each bioART rule has one or several **conditions** and one or several **actions**:

**Conditions:**
- AES Findings
- Antibiotic Interpretation
- Antibiotic MIC
- Antibiotic/Test
- Antibiotic/Test Finishing Last Bench
- Card type
- Organism
- Patient Location
- Patient Physician
- Phenotype
- Specimen Source
- Specimen Type
- Test Result

**Actions:**
- Alert
- Automatically Calculate Results
- Comment
- Stop for Review
- Suppress Antibiotic/test from Reporting
- Suppress Antibiotic/test from Analysis
Advanced Reporting Tool
Advanced Reporting Tool

- Two folders in the navigation tree:
  - Custom
  - Predefined

- Enable/disable rules
• Predefined bioART rules:
  ✓ Package insert limitations
    CLSI®, Global – default enabled
    EUCAST only – default disabled
  ✓ FDA indications for use – default disabled

• The navigation tree displays Custom (user defined) rules, and Predefined (bioMerieux created rules)
  Custom rules are numbered from 1 – 4,999
  Pre-defined rules are numbered from 5,000 – unlimited.

• Each rule will have the following information:
  ▪ Type (Custom or Pre-defined)
  ▪ MIC Interpretation
    ✓ CLSI
    ✓ Global
    ✓ EUCAST
  ▪ Category (Product Limitation/Intended use).
Create a bioART Rule

Step 1. Click the Unlock icon.
- Create Rule window appears

Step 2. Click YES
- After reading the message
Create a bioART Rule

Step 3. Click the Create New Component icon.
   • The Create Rule window appears

Step 4. Enter a Rule name.
   • Must be unique
   • Limited to 20 characters
   • Case-sensitive

Step 5. Click the OK button
Create a bioART Rule

Step 6  Click the icon to add conditions.
Create a bioART Rule

Step 7: Choose a criteria based on the condition

Step 8: Click OK
Create a bioART Rule

Step 9: Add an action, press the icon.

Step 10: Choose one of the actions from list.
Create a bioART Rule

Step 11: save your new rule!
bioART Rule Tips

- **Isolates with Alert indicated by “!”**
- **Message here indicates which antibiotics are suppressed from analysis**
- **Antibiotic suppressed from reporting indicated by checkmark**
- **Comments from bioART Rule are displayed here**
Advanced Reporting Tool

• A rule may be copied

• All displayed rules may be disabled with a click of a button

• All displayed rules may be enabled with a click of a button
Advanced Reporting Tool

- **Export or Import new rules base:** Predefined rules will be added to previous, customized rules will substitute the previous ATTENTION “!”
- **Print the rules**
- **Copy a predefined rule to custom** Very useful to speed-up the rule building
- **Filter the rules list**
- **Activate or Deactivate all rules that are filtered**
Advanced Filter

Many different options available for filtering
Test Your Rules

Test your Rule using at least one isolate that should fit the criteria and one isolate that should not fit the criteria.
Edit a bioART Rule

Unlock
Enable/Disable
Add or change the conditions
Add or change the actions
Choose the Rule from the list
Delete a bioART Rule

Choose the Rule from the list

Unlock

Click Delete Icon
Delete a bioART Rule
Print a bioART Rule

Advanced Reporting Tool Configuration

Print Rules

ASM / ECDMID Demo Data

Advanced Reporting Tool Report

Printed Feb 13, 2008 5:05:40 PM
Printed by: LabAdmin

(19) - LAZ FDA GP (Enabled)

Conditions

If

Organism is Gram positive cocci

And

Organism is NOT Staphylococcus aureus

Then

Suppress from analysis - Linezolid

Actions

(20) - MF FDA MSSA (Enabled)

Conditions

If

Organism is Staphylococcus aureus

Then

Suppress from reporting - Methicillin

Actions

(21) - MF FDA MSSA (Enabled)

Conditions

If

Organism is Staphylococcus aureus

And

Antibiotic is Oxacillin, Interpretation S, R

Then

Suppress from reporting - Methicillin

Actions

(22) - SXT FDA STAUR (Enabled)

Conditions

If

Organism is Gram positive cocci

Actions

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Print

OK
Import/Export a bioART Rule
THANK YOU!

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