How Test, Deploy and Refine MA
Agenda

1. Setting up an initial dashboard
2. Troubleshooting the Charts
3. Use of Thresholds and Filters
4. New Moving Average Features in v8.16.00
MA Desktop – pre 8.16.00
MA Desktop – 8.16.00

• Grid allows easy placement of charts
• Add a chart by pressing the plus symbol
Adding a Protocol

• A list of available protocols appears
• Highlight protocol
• Press Select Protocol
• Protocols may be sorted by the four categories listed at the top.
Multiple Dashboards

• Dashboards can be set to match your workflow
• Protocols can be on more than one dashboard
• A protocol can appear only once in a dashboard
Trouble Shooting
Click in Open space of a chart displays that chart.
Click on a point and results it used are displayed

<table>
<thead>
<tr>
<th>MA Result Value</th>
<th>Fluid</th>
<th>Processed Result</th>
<th>Test Status</th>
<th>Specimen ID</th>
<th>Result Date/Time</th>
<th>Specimen Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>353</td>
<td>Serum</td>
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<td>Released</td>
<td>B787237.02</td>
<td>07/03/2018 10:21</td>
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<td>B790459.02</td>
<td>06/01/1900 1:00</td>
<td>R</td>
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</tbody>
</table>
Removing Outlier Results

• Thresholds
  – High level cutoffs
  – Centered around the mean

• Filters
  – More specific
  – Based on demographics
    ▪ Age, Gender, Location, Diagnosis, Physician, etc.
  – Based on Values
    ▪ Asymmetrical Thresholds
    ▪ Non-numeric results (e.g. >, <, null etc.)
Setting Thresholds
After Threshold Applied

Upper Threshold Applied
What’s wrong with Series 2
### Point Information

#### Creat

**Series**

- **Name:** C2
- **Running Mean:** 24.96
- **Last Restart:** 07/03/2018 10:09

**Running SD:** 24.17

**Status:** Normal

**Point**

- **Time:** 07/03/2018 10:38

**Value:** 13.96

#### Results

<table>
<thead>
<tr>
<th>MA Result Value</th>
<th>Fluid</th>
<th>Processed Result</th>
<th>Test Status</th>
<th>Specimen ID</th>
<th>Result Date/Time</th>
<th>Specimen Type</th>
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<tbody>
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<td>07/03/2018 10:38</td>
<td>R</td>
</tr>
</tbody>
</table>
Filters

- Once a filter is entered, it is available for use for other protocols.
- Some default filters are available.
- Check the box for any filter you want applied to this protocol.
Adding a New Filter – Serums Only

- If a filter that you need does not exist a new filter can be added.
Step 1 – Select the data element

- The first step is to select the data element to be evaluated.
- All data elements are available however they will not all apply to your situation.
- Once selected, press next
Step 2 – Determine Condition

- The list of options will very based on the data element selected.
- Keep in mind that you will be EXCLUDING results that meet this condition.
Step 2 – Enter the Criteria

- Depending on the data element, multiple criteria may be added.
Step 3 – Finalize the Filter

• Enter a name that reflects the purpose of the filter.
• May turn on for current protocol.
• The filter itself is listed in the Review section. Ensure that this is what you really want.
Filter is added to the list and can be used for other protocols

• Remember this is what is EXCLUDED.
Significant improvement but more is needed

Break in line indicates restart
Look at point data again
Add Thresholds

- Low threshold to remove any result with “<“ or “>” symbol
- Thresholds don’t need to be the same “unit”
## Delete Results

### Point Information

**Series**
- **Name:** C1
- **Running Mean:** 1.55
- **Last Restart:** 07/03/2018 11:11

**Point**
- **Time:** 07/03/2018 11:24

**Results**

<table>
<thead>
<tr>
<th>MA Result Value</th>
<th>Fluid</th>
<th>Processed Result</th>
<th>Test Status</th>
<th>Specimen ID</th>
<th>Result Date/Time</th>
<th>Specimen Type</th>
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</tbody>
</table>

*Running SD:* 0.85  
*Status:* Normal

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*Image of a software interface showing a table with results and other details.*
Star indicates point was removed
Improved – recalculate Mean and SD?
Try different settings
Other Features -

• “Slider” reveals protocol information
Other Features

• Shows assigned values
• Allows to turn a series off or on
• Show individual series stats
• Restart individual series
• Restart all series
Other Features

Select Date Range
Export Point Data
Generate Report

Enter a new range

Start Date
7/3/2018

Start Time
1:47:55 PM

End Date
7/3/2018

End Time
2:02:55 PM

Accept Range
Cancel
Other Features

• Generate Report
  – Creates a report (pdf)
  – Shows Chart that was displayed
  – Time range that of chart
  – Statistics by series
  – All results that made up chart points
  – Place for free text comments at end of report.
Summary

• Review results that make up “aberrant” data points.
• Adjust information in result grid to provide insights
• Thresholds used to set boundaries.
• Exclusion filters used to remove results based on specific criteria
• Multiple filters may be used.
• This is an iterative process.
• MA calculator
  – Honors thresholds and exclusion filters
  – Consider recalculating after thresholds and filters have been added.
Questions?

Thank you for your time!

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