

How to set-up and Configure MA

Setting up Protocols and Dashboards



Agenda

1	Review of Moving Averages
2	Setting up Defaults
3	Setting up a Protocol
4	Calculating Mean, Standard Deviation and N
5	Setting up a Dashboard

Typical Practice – Quality Control (QC)

- Material with known (established) values
- Run at specified intervals (once per day, once per shift, every x patients)
- Results compared to acceptable range
- Assay is acceptable or not acceptable
- Limitations:
 - Only know the instrument performance at that time what happens between QC?
 - Delay in identifying potentially inaccurate results which may have been acted on
 - Expensive cost of reagents and cost of QC material itself.

Moving Averages – The Laboratory

- Provides Continual Monitoring between QC events.
- Identify issues more quickly
 - Faster resolution
 - Better Patient Care
 - Fewer corrected reports
- Uses patient results no additional material or reagent costs
- Limitation
 - Not applicable to every analyte
- Compliment to current QC practice, does not replace them.

How does it work?



Confidential

What does it look like?



MA Desktop – pre 8.16.00

Instrument Manager by Data Innovations LLC - [Moving Averages Desktop]

System Configuration Diagnostics Security Specimen Management SSR DC SR MM MA Laboratory Intelligence Reports Window Help





TP



Restart Protocol		_	_		_	-
Protocol Data	_	1				
Data	Value					
Protocol Name		1.				
Last Restart		1				
Target SD		1				
Target Mean		1				
Error High		1				
Warning High		1				
Warning Low		1				
Error Low		1				

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MA Desktop – 8.16.00

System Configuration Diagnostics Security Specimen Management SSR DC SR MM MA Laboratory Intelligence Reports Window Help

Moving Averages Desktop 🗙

	Dashboard: R	UG						b	49		1		()	
	A1c	×	Alb	×	. BUN	×	O Cort	×	ALKP	×	ALT	×	AMYL	×
	ASO	×	AST	×	B12	×	CA	×	Chol	×	CL	×	CO2	×
	CPK	×	Crea	×	CRP	×		×	DHEAS	×	E3	×	FOL	×
	FSH	×	FT3	×	FT4	×	FTN	×	GGT	×	GLU	×	PGR	×
•														
	HCG	×	HDL	×	IgA	×	lgG	×	lgM	×	О К	×	LDH	×
	LH	×	Mg	×	Na	×	PALB	×	PHOS	×	PRL	×	PROT	×
					=									
									_					
	PSA	×	RF	×	TBIL	×	Test	×	Trans	×	TRIG	×	TSH	×

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System	Conf	figuration Diagnostics Security Specimen Mana	gem	ent	SSR DC	SR MM	MA	Laboratory Intelligence	Reports	Window	Ĥ
		Configuration Editor									3
		Connection Assignment									
		Specimen Management Configuration	►								
		Moving Averages Configuration	►		Proto	col Setup					4
		Specimen Storage and Retrieval Configuration	►		Gene	al Setup					3
		Data Collection Setup		-							-
		Specimen Routing Setup									1
		Maintenance Manager Configuration	►								1
		Dictionary Editor									
		Report Designer									
		Language Locale Setup									4
		Notifier Setup									
		Backup Setup									
		Manage Mirror Members									4
		Save Configuration to File						••••			-
		Restore Configuration from File					IN	<pre>/powered*</pre>			
		Backup/Restore						· ••••••			
		Load Driver(s)									1
				1	السر بر						

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General Configuration

🛛 General Configuration				
🗄 🛃 🔚 🗛 🔀 🕐 📮				
🗆 General Options				
Grid Background Color	255; 255; 255			
Grid Foreground Color	0; 0; 0			
Chart Foreground Color	255; 255; 255			
Chart Background Color	255; 255; 255			
Chart Font Color	0; 0; 0			
Chart Font Size	14			
Chart Desktop Color	255; 255; 255			
Mean Color	67; 172; 106			
Warning Threshold Color	244; 180; 0			
Error Threshold Color	240; 65; 36			
Line Width	0.5			
Refresh Interval (seconds)	0			
Columns to be shown in data grid	MA Result Value, Result Date/Time, Collection Date/Time, Patient Age, Sex, Location - Ward, MA Violation 📃 💌			



Columns to show in data grid



Starting a new Protocol

IM	Protocol Configuration			x
:	🖣 🛃 🛗 🗙 🗃 🗛 🎇 🕖 🗕			
	General Protocol Options			
	Name			
	Description			-
	Site			
	Location			
	Enabled	No		
	Davs to keep raw result data	3		
	Days to keep averaged points	3		
	Automatically Restart Protocol	Never		
	X-Axis Time Range - Value	1		
	X-Axis Time Range - Units	Hour(s)		
	Graph minimum value			
	Graph maximum value			
	Graph major unit			
	Graph Y-axis label			
	Filter*	Click to edit filters		
Ξ	Automatic result exclusion			
	Exclusion Low*	Do not automatically exclude results		
	Exclusion High*	Do not automatically exclude results		
	Decimal Separator			
	Trigger Notifier Event on Removal of Result	- None -		
	Trigger Notifier Event on Series Restart	- None -		
ŧ	Override General Appearance Settings	No		
Ŧ	Override General Columns To Be Shown In Data Grid	No		
Ξ	Protocol Details			
[Calculation Method**	Moving Average		
	Automatically calculate Target Mean and Target SD	Never		
	Target Mean			
	Target SD			
	Number of results to use in calculation**	0		
	Automatically Release Results	No		
	Series			
Ξ	Warnings and Errors			
	Number of consecutive points required to trigger error or warning	1		
Ŧ	Error Low			
Ŧ	Warning Low			
Ŧ	Warning High			
Ŧ	Error High			
Ξ	Too Many Excluded Results			
	Put series in error state if too many results excluded	No		

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12

General Options

HM	M Protocol Configuration				
:	🏪 🛃 🔚 l 🏠 🗶 📓 l 🗛 🖓 l 🥥 🖕				
	General Protocol Options				
	Name		3		
	Description				
	Site		3		
	Location				
	Enabled	No			
	Days to keep raw result data	3			
	Days to keep averaged points	3	3		
	Automatically Restart Protocol	Never			
	X-Axis Time Range - Value	1			
	X-Axis Time Range - Units	Hour(s)			
	Graph minimum value				
	Graph maximum value				
	Graph major unit				
	Graph Y-axis label				
	Filter*	Click to edit filters	•		
	Automatic result exclusion				
	Exclusion Low*	Do not automatically exclude results			
	Exclusion High*	Do not automatically exclude results			
	Decimal Separator				
	Trigger Notifier Event on Removal of Result	- None -			
	Trigger Notifier Event on Series Restart	- None -	}		
Ð	Override General Appearance Settings	No			
Ð	Override General Columns To Be Shown In Data Grid	No	5		
	Protocol Details				

M**ai**ng Ave

Override Defaults

Override General Appearance Settings	No
Grid Background Color	255; 255; 255
Grid Foreground Color	0;0;0
Chart Foreground Color	255; 255; 255
Chart Background Color	255; 255; 255
Chart Font Color	🔲 0; 0; 0
Chart Font Size	14
Mean Color	67; 172; 106
Warning Threshold Color	244; 180; 0
Error Threshold Color	240; 65; 36
Line Width	0.5
🖃 Override General Columns To Be Shown In Data Grid 👘	No
Columns to be shown in data grid	MA Result Value, Result Date/Time, Collection Date/Time, Patient Age, Sex, Location - Ward, MA Violation 🥼 🥻
Protocol Details	
Cal Net Met	Mouleur and

Setting Target, SD, N and Calculation Method

E	Protocol Details		}
	Calculation Method**	Moving Average	Ţ
	Automatically calculate Target Mean and Target SD	Never	
	Target Mean		≻.
	Target SD		<u>_</u>
	Number of results to use in calculation**	0	λ.
Л	Automatically Release Besults	No.	



Adding a Series

Ξ	Series		
Э	Series		
	Series Name		2
	Instrument ID		N.
	Test Code(s)		
	Line Color	0; 0; 0	\geq
	Ignore errors and warnings for this series	No	1
Ξ	Warnings and Errors		
Ч	Number of community and require the Wiscow or		1



Adding a Series

M Select Connect	ion and Instrument ID	×
Connection Name	Chemistry 01	•
Instrument ID	Test1 Test2	

Select Connection and Instrument ID

M Select Connection and Instrument ID					
Connection Name	Chemistry 01				
Instrument ID	Test1				
	OK Cancel				

Adding A test



Setting Target, SD, N and Calculation Method

E	Protocol Details		
	Calculation Method**	Moving Average	ð
	Automatically calculate Target Mean and Target SD	Never	<u> </u>
	Target Mean		\geq
	Target SD	1	
	Number of results to use in calculation**	0	2
Л	Automatically Release Besults	No.	1

Determine Protocol Values – Starting Points

- Mean, SD, and Number to use in point (N)
- Automated Methods
 - IM 8.16 built in calculator
 - IM 8.12-8.15 calculate using microsite
- Other Options
 - Use center of reference range for Mean
 - Use the Mean as the SD
 - Use 50 for N varies based on volume.

Picture of calculator button

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General Protocol Options

Name	
Description	
Site	
Location	
Enabled	
Days to keep raw result data	
Days to keep averaged points	
Automatically Restart Protocol	
X-Axis Time Range - Value	

- Must have at least 1 series defined.
- Will honor the exclusions and filters.
- There must be patient data in SM database.

Date Range

M Protocol Calculator	467		×
Start Date	02/21/2018 ▼	End Date	02/28/2018
SD for QC Level		False Positive Rate (%)	_
Confidence Level	_		Calculate
Mean		Median	
Mean SD		Median SD	
% Exclusions		% Exclusions	
Results Included		Results Included	
Number of results to use in calculation	<u></u>	Number of results to use in calculation	
	Apply Mean		Apply Median
			Close

- Defaults to the last week.
- Data range can be adjusted to suit your data.
- More than 200 data points does not significantly improve the statistics.

Enter QC SD

M Protocol Calculator	ac1			3
Start Date	02/21/2018	End Date	02/28/2018	-
SD for QC Level		False Positive Rate (%)		·
Confidence Level	-		Calculate	
Mean		Median	 _	-
Mean SD		Median SD		_
% Exclusions		% Exclusions		-
Results Included		Results Included	<u></u>	-
Number of results to use in calculation		Number of results to use in calculation		
	Apply Mean		Apply Median	
			Close	

- Use SD from 'normal' QC or one near the normal range.
- May average SD from multiple QC.
- Used to calculate the Number of results to use in calculation.

Enter False Positive Rate

M Protocol Calculator	467		×
Start Date	<u>₩</u> /21/2018	End Date	02/28/2018 🗸
SD for QC Level		False Positive Rate (%)	
Confidence Level	•		Calculate
Mean		Median	
Mean SD		Median SD	
% Exclusions		% Exclusions	
Results Included		Results Included	
Number of results to use in calculation		Number of results to use in calculation	
	Apply Mean		Apply Median
			Close

- Statistically there will always be a certain level of false positives.
- Enter any value between 1 and 25
- 5% is typcial

Enter Confidence Level

M Protocol Calculator	ac1		X
Start Date	12/21/2018	End Date	02/28/2018
SD for QC Level		False Positive Rate (%)	•
Confidence Level	_	>	Calculate
Mean		Median	
Mean SD		Median SD	
% Exclusions		% Exclusions	
Results Included		Results Included	
Number of results to use in calculation		Number of results to use in calculation	<u></u>
	Apply Mean		Apply Median
			Close

- Enter Confidence Level.
- Choices are 90%, 95% and 99%.
- 95% is typical.

Press Calculate

M Protocol Calculator	407		×
Start Date	<u>₩</u> /21/2018	End Date	02/28/2018
SD for QC Level		False Positive Rate (%)	_
Confidence Level	_	\langle	Calculate
Mean		Median	
Mean SD		Median SD	
% Exclusions		% Exclusions	
Results Included		Results Included	
Number of results to use in calculation		Number of results to use in calculation	
	Apply Mean		Apply Median
			Close

- Use SD from 'normal' QC or one near the normal range.
- May average SD from multiple QC.
- Used to calculate the Number of results to use in calculation.

Values are shown

M Protocol Calculator	467		X
Start Date	02/21/2018	End Date	02/28/2018
SD for QC Level	2.9	False Positive Rate (%)	5
Confidence Level	95% 🗸		Calculate
Mean	25.0	Median	21.0
Mean SD	16.0	Median SD	16.0
% Exclusions	1%	% Exclusions	2%
Results Included	3939	Results Included	3910
Number of results to use in calculation	100	Number of results to use in calculation	100
	Apply Mean		Apply Median
I EST LODE[S]: ALT	A	I EST LOGE[S]: ALI	•
RAW Mean: 25.9 RAW Mean SD: 20.7 RAW Mean N: 3991		RAW Median: 21.0 RAW Median SD: 20.7 RAW Median N: 3991	
RAW Mean 5 SD: 103.6 Mean +5SD: 129.5 Mean -5SD: -77.7 Mean N: 3971	E	RAW Median 5 SD: 103.6 Median +5SD: 124.6 Median -5SD: 82.6 Median N: 3970	E
Exclusion High: 89 Exclusion Low: -39		Exclusion High: 85 Exclusion Low: -43	

• The Mean, Median and SD are displayed.

Close

Review Statistics

M Protocol Calcu	llator	407				×
	Start Date	02/21/2018	•	End Date	02/28/2018	•
	SD for QC Level	2.9	_	False Positive Rate (%)	5	•
	Confidence Level	95%	•		Calculate	
	Mean	25.0	_	Median	21.0	
	Mean SD	16.0	_	Median SD	16.0	
	% Exclusions	1%	_	% Exclusions	2%	
	Results Included	3939	_	Results Included	3910	
Number of results to	o use in calculation	100	Number of re	sults to use in calculation	100	
		Apply Mean			Apply Median	
I est L	oaelsj: ALT			est Lode(s): ALT		^
RAW Mean: 25. RAW Mean SD RAW Mean N: 3	9 : 20.7 3991		RAW Medi RAW Medi RAW Medi	ian: 21.0 ian SD: 20.7 ian N: 3991		
RAW Mean 5 S Mean +5SD: 12 Mean -5SD: -77. Mean N: 3971	i D : 103.6 9.5 .7		RAW Medi Median +5 Median -5 Median N:	ian 5 SD: 103.6 SD: 124.6 SD: -82.6 3970		E
Exclusion High: Exclusion Low:	: 89 -39		Exclusion Exclusion	High: 85 Low: -43		-
						Close

- The % exclusion shows the percent of the results that were rejected based on exclusions and filters.
- A default exclusion of +/- 5 SD is used to removed extreme results.
- A large % exclusion might indicate a need to review filters and exclusions
- A small number of included results may indicate a need to adjust exclusions or filters or this may not be a good candidate for moving averages.

Number of results to use in calculation

M Protocol Calculator	407				x
Start Date	02/21/2018	•	End Date	02/28/2018	•
SD for QC Level	2.9		False Positive Rate (%)	5	•
Confidence Level	95%	-		Calculate	
Mean	25.0		Median	21.0	
Mean SD	16.0		Median SD	16.0	
% Exclusions	1%		% Exclusions	2%	
Results Included	3939		Results Included	3910	
Number of results to use in calculation	100		Number of results to use in calculation	100	
Number of results to use in calculation	100 Apply Mean		Number of results to use in calculation	100 Apply Median	
Number of results to use in calculation	100 Apply Mean		Number of results to use in calculation	100 Apply Median	
Number of results to use in calculation Test Code(s): ALT RAW Mean: 25.9 RAW Mean SD: 20.7 RAW Mean N: 3991	100 Apply Mean	•	Number of results to use in calculation rest code(s): ALT RAW Median: 21.0 RAW Median SD: 20.7 RAW Median N: 3991	100 Apply Median	-
I est code(s): ALT RAW Mean: 25.9 RAW Mean: 25.9 RAW Mean: 25.9 RAW Mean SD: 20.7 Mean SD: 103.6 Mean -5SD: 129.5 Mean SD: -77.7 Mean N: 3971	100 Apply Mean	^	Number of results to use in calculation rest code(s): ALT RAW Median: 21.0 RAW Median SD: 20.7 RAW Median N: 3991 RAW Median 5 SD: 103.6 Median +5SD: 124.6 Median -5SD: 82.6 Median N: 3970	100 Apply Median	*

• This is N

 Truncated at 100 (can be much higher but that is impractical)

Close

Informational Statistics

I	M Protocol Calculator	407		×
	Start Date	02/21/2018	End Date	02/28/2018
	SD for QC Level	2.9	False Positive Rate (%)	5 💌
	Confidence Level	95% 💌		Calculate
	Mean	25.0	Median	21.0
	Mean SD	16.0	Median SD	16.0
	% Exclusions	1%	% Exclusions	2%
	Results Included	3939	Results Included	3910
	Number of results to use in calculation	100	Number of results to use in calculation	100
		Apply Mean		Apply Median
Ī	I est Lode(s): ALT	*	I EST LOGE[S]: ALT	
	RAW Mean: 25.9 RAW Mean SD: 20.7 RAW Mean N: 3991		RAW Median: 21.0 RAW Median SD: 20.7 RAW Median N: 3991	
	RAW Mean 5 SD: 103.6 Mean +5SD: 129.5 Mean -5SD: -77.7 Mean N: 3971	E	RAW Median 5 SD: 103.6 Median +5SD: 124.6 Median -5SD: -82.6 Median N: 3970	E
	Exclusion High: 89 Exclusion Low: -39	~	Exclusion High: 85 Exclusion Low: -43	-
				Close

Additional information that shows the raw statistics

Apply values

M Protocol Calculator	407		×
Start Date	02/21/2018 🗸	End Date	02/28/2018 -
SD for QC Level	2.9	False Positive Rate (%)	5
Confidence Level	95%		Calculate
Mean	25.0	Median	21.0
Mean SD	16.0	Median SD	16.0
% Exclusions	1%	% Exclusions	2%
Results Included	3939	Results Included	3910
Number of results to use in calculation	100	Number of results to use in calculation	100
	Apply Mean		Apply Median
I EST LOGE(SJ: ALI	A	I EST LOGE(SJ: ALT	
RAW Mean: 25.9 RAW Mean SD: 20.7 RAW Mean N: 3991		RAW Median: 21.0 RAW Median SD: 20.7 RAW Median N: 3991	
RAW Mean 5 SD: 103.6 Mean +5SD: 129.5 Mean -5SD: -77.7 Mean N: 3971	E	RAW Median 5 SD: 103.6 Median +5SD: 124.6 Median -5SD: 82.6 Median N: 3970	=
Exclusion High: 89 Exclusion Low: -39	-	Exclusion High: 85 Exclusion Low: -43	-
			Class

- Allows for the Mean or Median and the associated, SD and Number of results to use in calculation to be entered automatically.
- Values can be edited after they are put into the protocol.

Applying Values

M Protocol Configuration			
🗄 🖞 🖃 🖹 🗙 📓 🗛 🍇	0 -		
General Protocol Options			
Name		ALT	
Description		ALT	
Site			
Location			
Enabled		Yes	
Days to keep raw result data		9999	
Days to keep averaged points		9999	
Automatically Restart Protocol		Never	
X-Axis Time Range - Value		15	
X-Axis Time Range - Units		Minute(s)	
Graph minimum value		0	
Graph maximum value		60	
Graph major unit		5	
Graph Y-axis label		ALT	
Filter*		Click to edit filters	E
Automatic result exclusion			
Exclusion Low*		4 (Standard Deviations)	
Exclusion High*		4 (Standard Deviations)	
Decimal Separator			
Trigger Notifier Event on Removal of Re	esult	- None -	
Trigger Notifier Event on Series Restart		- None -	
		No	
🛨 Override General Columns To Be Show	n In Data Grid	No	
Protocol Details			
Calculation Method**		Moving Average	
Automatically calculate Target Mean an	d Target SD	Never	
Target Mean		22.9	
Target SD		15.3	
Number of results to use in calculation**		100	
Automatically Release Results		No	
Series			
ALT Chem 1			
Series Name		ALT Chem 1	
Instrument ID		Chemistry 01	
Test Code(s)		ALT	
Line Color		255; 0; 255	
Ignore errors and warnings for this se	ries	No	
ALT Chem 2			
🖬 ALT Chem 3			Ψ.

- Mean, SD and Number of results to use in calculation are entered.
- Values can be edited.
- Median requires additional calculations be to licensed.



If you don't have 8.16...

	Α	В	С	D	E
1	Test Code	Result	Result Date/Time	Date	Time
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					

Instructions:

Minimum information required on Raw Data Tab

- 1. Enter the Test Code (test name) in Column A starting on row 2
- 2. Enter patient results in Column B starting on row 2

Note: Any number of patient results may be used however at least 200 are recommended.

<u>Additional information if chart plots are desired.</u> Date and time must be entered in one of the two formats.

If the date and time are in the **YYYYMMDDHHMMSS** format: Place them in column C starting at row 2. The dates and time will be extracted and placed in columns D and E.

If the date and time are in separate MM/DD/YYYY and HH:MM:SS XM formats: Place the Date in column D starting in row 2 and place the time in column E starting in row 2. Column C may be left blank.

If you don't have 8.16...



Warnings and Errors

Ξ	Warnings and Errors	
	Number of consecutive points required to trigger error or warning	1
Ξ	Error Low	
	Threshold Value	2 (Standard Deviations Below mean)
	Notifier Event	- None -
	Start Holding for Verification	Do not hold tests
	Mark out of service	No
Ξ	Warning Low	
	Threshold Value	1 (Standard Deviations Below mean)
	Notifier Event	- None -
	Start Holding for Verification	Do not hold tests
	Mark out of service	No
Ξ	Warning High	
	Threshold Value	1 (Standard Deviations Above mean)
	Notifier Event	- None -
	Start Holding for Verification	Do not hold tests
	Mark out of service	No
Ð	Error High	
	Threshold Value	2 (Standard Deviations Above mean)
	Notifier Event	- None -
	Start Holding for Verification	Do not hold tests
	Mark out of service	No
Ξ	Too Many Excluded Results	
	Put series in error state if too many results excluded	No
	Threshold Value	0
	Notifier Event	- None -
	Start Holding for Verification	Do not hold tests
	Mark out of service	No

- Allows user to require more than one consecutive point before an event is triggered.
- Thresholds may be set using Standard Deviation, Percent, Absolute number or SD Prime (SD divided by the square root of the number of observations)
- Initially set them very wide and narrow as filters are put into place.
- Allows flagging if too many results are excluded.

Copying a Protocol

IM	M Protocol Configuration						
	! 🖀 🔨 🔁 🝸 🗙 ७ । 👻 🖛 🖿 👍 🗛 🖓 III 🖉 💂						
D	Drag a column header here to group by that column.						
	Protocol Name / Description Enabled Graphed Series Calculation Type Last Restart Date/Time						
	ALB	ALB	Yes	ALB Vitros 1,	Moving Average	01/02/2018 06:37:31 🁔	
	ALP	ALP	Yes	ALP 1, ALP 2	Moving Average	01/02/2018 06:37:31	
	ALP X	ALPX	Yes	ALP X1, ALP X2	Exponential Moving	01/02/2018 06:37:31	
	ALT	ALT	Yes	ALT Chem 1,	Moving Average	03/01/2018 08:38:47	
	AST	AST	Yes	AST, AST	Moving Average	01/02/2018 06:37:31 🗨	
	AST 2	AST	No	AST Chem 1,	Moving Average	02/09/2018 10:42:17 🍎	
	BUN	BUN	Yes	BUN 1, BUN 2	Moving Average	02/27/2018 09:16:55 🌾	
	BUN c1	BUN	Yes	BUN 1	Moving Average	02/28/2018 05:14:36	
	BUN C2	BUN	Yes	BUN 2	Moving Average	02/28/2018 05:35:55	
	CA	CA	Yes	CA Vitros 1, CA	Moving Average	01/02/2018 06:37:3	
F	ALP ALP Yes ALP 1, ALP 2 Moving Average 01/02/2018 06:37:31 ALPX ALPX ALPX Yes ALPX1, ALPX2 Exponential Moving 01/02/2018 06:37:31 ALT ALT ALT Yes ALT Chem 1, Moving Average 03/01/2018 08:38:47 AST AST AST Yes ALT Chem 1, Moving Average 01/02/2018 06:37:31 AST AST AST No AST, AST Moving Average 01/02/2018 06:37:31 AST 2 AST No AST Chem 1, Moving Average 02/09/2018 10:42:17 BUN BUN Yes BUN 1, BUN 2 Moving Average 02/27/2018 09:16:55 BUN c1 BUN Yes BUN 1 Moving Average 02/28/2018 05:14:36 BUN C2 BUN Yes BUN 2 Moving Average 02/28/2018 05:35:55 CA CA Yes CA Vitros 1, CA Moving Average 01/02/2018 06:37:31						

• Once a protocol has been set up, it can be copied.

Copying a Protocol

🔣 Protocol Configu	ration					
i 🚰 🛅 🖬 🝸 🗙	0 7 7	* ⊣ ♂ * ₀ ⊞	🗉 🚑 🗛 🎇 🥑	-		
Drag a column header here to group by that column.						
Protocol Name /	Description	Enabled	Graphed Series	Calculation Type	Last Restart I	
ALB	ALB	Yes	ALB Vitros 1,	Moving Average	01/02/2018	
ALP	ALP	Yes	ALP 1, ALP 2	Moving Average	01/02/2018	
ALPX	ALPX	Yes	ALP X1, ALP X2	Exponential Moving	01/02/2018	
ALT	ALT	Yes	ALT Chem 1,	Moving Average	03/01/2018	
AST	AST	Yes	AST, AST	Moving Average	01/02/20180	
AST 2	AST	No	AST Chem 1,	Moving Average	02/09/2018	
BUN	BUN	Yes	BUN 1, BUN 2	Moving Average	02/27/2018	
BUN c1	BUN	Yes	BUN 1	Moving Average	02/28/2018	
BUN C2	BUN	Yes	BUN 2	Moving Average	02/28/2018 0	
CA	CA	Yes	CA Vitros 1, CA	Moving Average	01/02/2018	
CHOL	CHOL	Yes	CHOL C1, CHOL	Moving Average	01/02/2018	
CHOL C1	CHOL	No	CHOL C1	Moving Average	01/02/2018	
CHOL C2	CHOL	No	CHOL C2	Moving Average	01/02/2018	
CL	CL	Yes	CL Vitros 1, CL	Moving Average	01/02/2018)	
C02	C02	Yes	CO2 Vitros 1,	Moving Average	01/02/2018 0	
Copy (1) of ALT	ALT	No	ALT Chem 1,	Moving Average	03/01/2018	
Copy (1) of TRIG	TRIG	No	TRIG Vitros 1,	Moving Average	01/02/2018 0	
CRE	CRE	Yes	CRE Vitros 1,	Moving Average	01/02/2018	
GLU	GLU	Yes	GLU Chem 1,	Moving Average	01/09/2018	
Glu 2	GLU	Yes	GLU Chem 1,	Moving Average	01/02/2018	
Glu Classification	GUL	Yes		Moving Average	01/30/201	

- Copy will be labeled Copy [X] of Protocol Name. (e.g. Copy [1] of ALT)
- Additional copies will be [2], [3] etc.
- Useful when doing multiple analytes for the same series.
- Only select items need to be edited. (e.g. name, test code, Mean, SD, N etc.)

Summary

- Moving Averages is used to enhance QC, not replace it.
- Defaults control the general look of the Dashboard
- Defaults can be overridden within individual protocols
- Set-up a few protocols to start
- Calculator available to establish starting Mean, SD, N
- Set-up Dashboards in IM8.16.00

• Next time: Testing, deploying, and Refining Protocols

Questions?

Thank you for your time!

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