Enhancements for Consistent Display Across Screens

To improve visibility of lab result values that are flagged as out-of-range or abnormal, we are carrying through the color coding we currently use in the AMP Result category (which displays those flagged values in **red font**). We are also expanding the display to allow users to distinguish between abnormal high and low values based on the Result Flag - where flags **L, LL,** or **Below** will display in a **blue font**, and then all other abnormal flagged results will continue to display in **red font**. Remaining values that are not flagged would continue to display in the standard system font.

Furthermore, we added the ability to mark-up new Manually Entered lab values to contain a *Result Flag* so that those lab values can also be displayed in **blue font** for values that are **L, LL,** or **Below**, or **red font** for all other Result Flag values selected (the default is blank - no flag - which displays in the standard system font). Use this link for how-to information on manually enter labs.

This color coded display will carry over from AMP Results to the Vitals > Table View, and will update the Result Requisition screen display to update the highlight for any results displayed in **blue font** because they are flagged with **L, LL,** or **Below** to highlight blue, while other flagged abnormal results would continue to display in **red font** highlight.

Note: By default, ***Show Abnormal Results in Blue*** *setting will be turned on for all users.* However, users can turn off the **blue color** font if they have difficulty for any reason. Turning off the **blue color font** would revert back to the existing (standard) **RED font** we currently use to notate lab result values that are flagged as out of range.

Default View of Result Data

As noted above, by default we are setting result data to display specified low abnormal flagged result values in **blue font**, other abnormal flagged result values in **red font**, and result data that is not flagged will continue to display in **standard font.** Examples that are shown below give an idea of what users can expect to see (although results will vary dependent on user settings in OfficeEMR and based on the users device).

EMR Patient AMP Results

Patient AMP

Problems ∨
Allergies ∨
Results ∧

PSA

eGFR	02-24-20	0.12	0.06	0.11
Testost...	02-24-20	10.1 (L)	14.6 (L)	13.2 (L)

Vitals ∧

	02-24-20	11-19-19	11-12-19
Blood	135 / 80	- / -	115 / 83
Ht	5'1	5'1	5'1
Wt	223	223	223
BMI	42.13	42.13	42.13

Medications ∨

Vitals Table View Results

○ Graph ● Table

Name	02/15/2024	02/14/2024	02/13/2024	02/12/2024	02/01/2024
PSA					
eGFR	1	3	5	7	12
Testosterone	2	4	6	8	14
Vitals					
BP					

3m 6m 1y 2y All

Results in Requisition Display

PathGroup
Physician Centered. Patient Focused.

Pathgroup

| OfficeEMR Patient Id 50390 | | Patient Name Quillen, SHEDRICK D. (SHEDRICK) | | Sex M | Age 87y | Date Of Birth 12/06/1936 |
| Requisition Number E5A5268208 | Account Number PGP388089 | Accession Number/Internal ID 50390 | | Date and Time Collected 08/28/2019 5:32pm | | Reported Date 08/29/2019 |

Name	Value	Flag	Range	UOM	Status	Date	Lab

CBC With Platelet And Differential (Paul B Farabaugh)
Received:
  Date: Thu Aug 29 05:30:00 2019
  Reported: Thu Aug 29 08:37:00 2019
Test performed by PathGroup Labs, LLC
1010 Airpark Center Dr., Suite C, Nashville, TN 37217
Pranil K. Chandra, DO, Laboratory Director
CLIA: 44D1008678

Name	Value	Flag	Range	UOM	Status	Date	Lab
WBC	8.6		3.8-11.5	K/uL	F	08/29/19	1
Red Blood Cell Count (RBC)	3.61	L	4.20-5.70	M/mm3	F	08/29/19	1
Hemoglobin (Hgb)	11.8	L	13.1-17.5	gm/dL	F	08/29/19	1

Effective 6/17/2019
New HGB Reference Range: Males >=12 years old — 13.1 - 17.5 gm/dL
Females >=12 years old — 11.5 - 15.5 gm/dL
Prev HGB Reference Range: Males >=12 years old — 14.0 - 18.0 gm/dL
Females >=12 years old — 12.0 - 16.0 gm/dL

| Hematocrit (HCT) | 35.4 | L | 39.0-51.0 | % | F | 08/29/19 | 1 |

Effective 6/17/2019
New HCT Reference Range: Males >=12 years old = 39.0 - 51.0 %
Females >=12 years old = 35.2 - 46.4 %
Prev HCT Reference Range: Males >=12 years old = 42.2 - 53.8 %
Females >=12 years old = 37.4 - 48.3 %

Name	Value	Flag	Range	UOM	Status	Date	Lab
MCV	98.1		79.0-99.0	fL	F	08/29/19	1
MCH	32.7		26.9-35.0	pg	F	08/29/19	1
MCHC	33.3		30.4-34.8	g/dL	F	08/29/19	1
RDW	52.1		38.2-53.0	fL	F	08/29/19	1
Platelet Count	508	H	137-397	K/cumm	F	08/29/19	1
Neutrophils Automated	77.0		41.0-77.0	%	F	08/29/19	1
Lymphocytes Automated	11.1	L	14.0-48.0	%	F	08/29/19	1
Monocytes Automated	7.1		4.0-13.0	%	F	08/29/19	1
Eosinophils Automated	3.5		1.0-8.0	%	F	08/29/19	1
Basophils Automated	0.5		0.0-1.5	%	F	08/29/19	1
Immature Granulocyte Automated	0.8		0.0-1.0	%	F	08/29/19	1

Comprehensive Metabolic Panel CMP (Paul B Farabaugh)
Received:
  Date: Thu Aug 29 05:30:00 2019
  Reported: Thu Aug 29 08:37:00 2019
Test performed by PathGroup Labs, LLC
1010 Airpark Center Dr., Suite C, Nashville, TN 37217
Pranil K. Chandra, DO, Laboratory Director
CLIA: 44D1008678

Result Findings/Activities   Add Result Findings/Activities

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SOAP Note (Progress Note) Data Trend Display

We will be carrying the result data color coding through to the Data Trends view in the SOAP Notes in our *future release.*

EMR — C4915

Coming Soon
Assessment and Plan

Data Trends

eGFR	
05/07/2019	11/12/2019
0.11ng/mL	0.06ng/mL

27306-Davis, FLOIS H. (FLOIS) 11-Jun-1932 (91y) ♂

chandler

Patient Photograph
Patient AMP

Problems
Allergies
Results
  PSA
  eGFR 02-24-20 0.12 | 0.06 | 0.11
  Testost... 02-24-20 10.1 (L) | 14.6 (L) | 13.2 (L)
Vitals

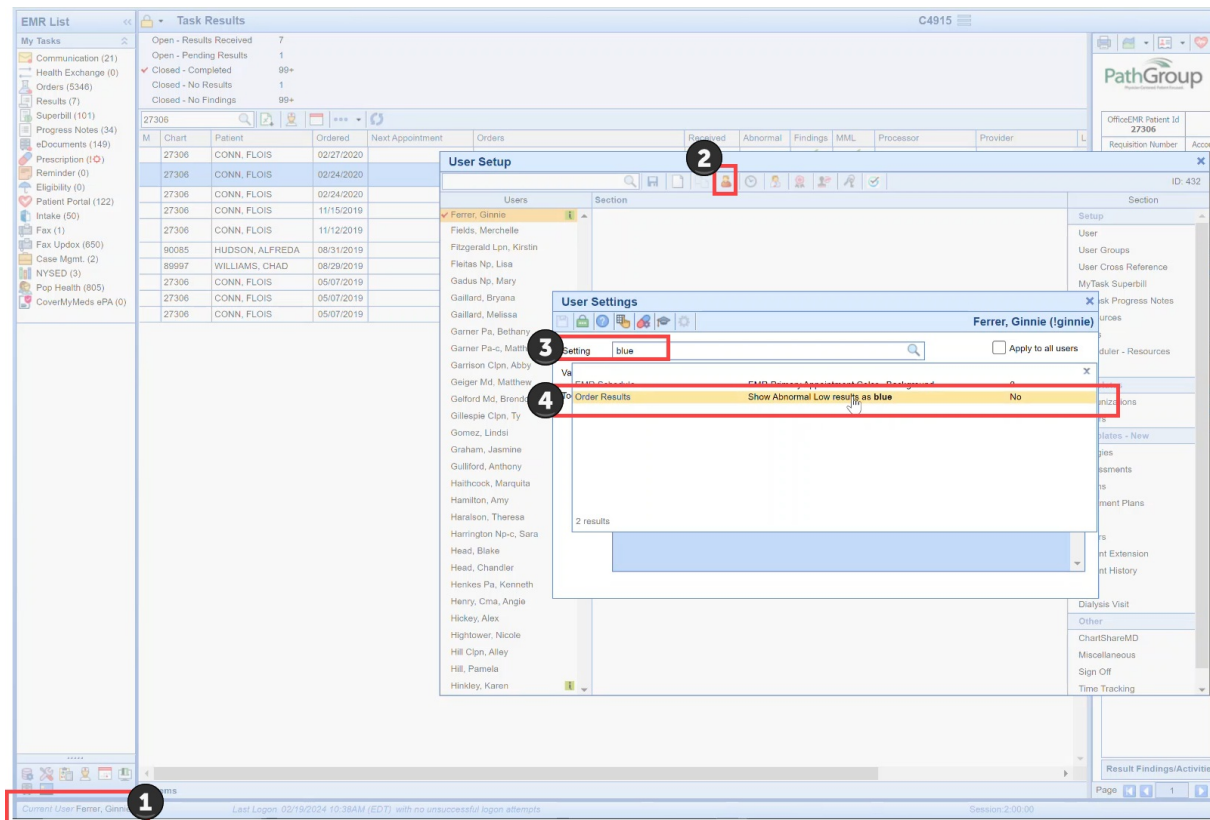|	02-24-20	11-19-19	11-12-19
Blood	135 / 80	- / -	115 / 83
Ht	5'1	5'1	5'1
Wt	223	223	223
BMI	42.13	42.13	42.13

Medications

User Setting for Control Over Blue Font

The following options exist for user to turn off/on the blue formatting associated with Result Flags of **L, LL,** or **Below**:
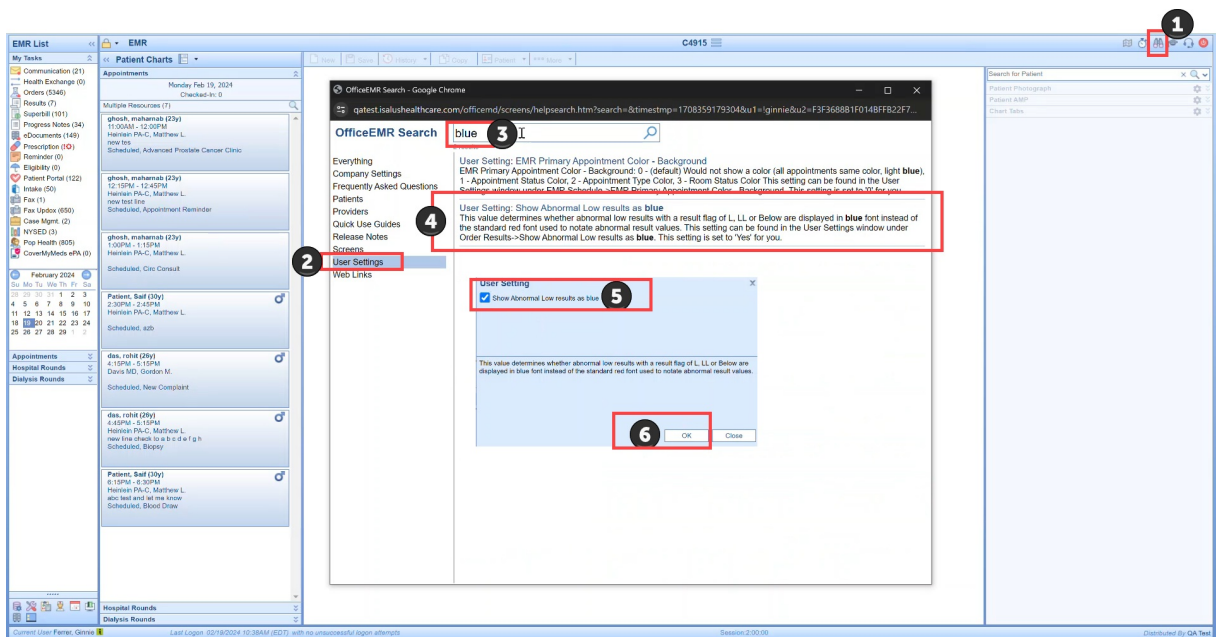
Turn Off/On via User Settings:

1. Open your User Settings by clicking on your **icon**
2. Choose **User Settings**
3. Search any combination to open the setting ***Show Abnormal Low results as blue***
4. Select to open that setting (which defaults to check-marked to display low flagged values in blue font) - leave check marked for "Yes" to *Show Abnormal Low results as blue,* or uncheck for "No" to *Show Abnormal Low results as blue*

Turn Off/On via Office EMR Search icon:

1. Open the **Office EMR Search icon**
2. Choose **User Settings**
3. Search any combination to open the setting ***Show Abnormal Low results as blue***
4. Select to open that setting (which defaults to check-marked to display low flagged values in blue font) - leave check marked for "Yes" to *Show Abnormal Low results as blue,* or uncheck for "No" to *Show Abnormal Low results as blue*

Turn Off/On via Result Options Settings when viewing a Result Requisition:

1. Open the Result Requisition view from either **My Tasks > Results,** OR from the **Patient Chart > Order Entry >Result tab**
2. Select *any requisition* (where you can see L, LL, or Below values is most ideal for visual display of blue or no blue)
3. Use the *Result Options drop down menu* and select **Settings**
4. Select to open that setting (which defaults to check-marked to display low flagged values in blue font) - leave check marked for "Yes" to *Show Abnormal Low results as blue,* or uncheck for "No" to *Show Abnormal Low results as blue*