TEST UPDATE
Updates to Conjugated Bilirubin, Creatinine, Serum/Plasma, and Protein to Creatinine Ratio, Urine
UVMMC

On 11/15/2023 the UVMHN will be making the following changes to the reference ranges and critical values for the orderables below:

1. Conjugated Bilirubin Updates:

Parameter	Current	New
Reference Range	All ages: <= 0.3 mg/dL	0-1y: <0.3 mg/dL 1y+: <= 0.3 mg/dL
Critical Value	All ages: >15.0 mg/dL	0-1y: >= 1.0 mg/dL 1y+: >15.0 mg/dL

Affected Orderables	Epic Code	Atlas Code	Mayo Access ID
Protein/Creatinine Ratio, U.	LAB3650	UTPCRR	FAH5739
Bilirubin, Direct (PMC only)	LAB15111	N/A	N/A
Bilirubin, Direct & Indirect	LAB168	DBIL	FAH5244
Bilirubin, Neonatal	LAB51	NBIL	FAH5247
Bilirubin, Total & Direct	LAB182	TDBIL	FAH5976

2. Urine Protein/Creatinine Updates:

Parameter	Current	New
Reference Range	18y+: <0.18 mg/mg Creatinine	6-24 months: <0.50 mg/mg Creatinine 24m-18y: <0.20 mg/mg Creatinine >18y: <0.15 mg/mg Creatinine

Affected Orderable	Epic Code	Atlas Code	Mayo Access ID
Protein/Creatinine Ratio, U.	LAB3650	UTPCRR	FAH5739

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3. Creatinine, Serum/Plasma Updates:

Affected Orderables	Epic Code	Atlas Code	Mayo Access ID
Creatinine, Serum/Plasma	LAB66	CREAT	FAH5382
POCT Creatinine	POC47	N/A	N/A

Parameter	Current	New
Critical Value	All ages: >= 15.0 mg/dL	0-18y: >= 3.0 mg/dL >18y: >= 15.0 mg/dL
Delta Critical Value	All ages: >5.0 mg/dL with no previous, OR 3 times higher than previous, OR >4.0 mg/dL and is more than 2.5 mg/dL higher than previous	0-18y: >= 1.0 mg/dL higher than previous >18y: >5.0 mg/dL with no previous, OR 3 times higher than previous, OR >4.0 mg/dL and is more than 2.5 mg/dL higher than previous

Parameter for POC47	Current		New	
Critical Value	N/A		0-18y: >= 3.0 mg/dL >18y: >= 15.0 mg/dL	
Delta Critical Value	N/A		N/A	
Reference Range	**Female:**		**Female:**	
	Age	**Values**	**Age**	**Values**
	0 UP TO 2M	0.3-0.9	0 UP TO 15D	0.3-0.9
	2M UP TO 1Y	0.2-0.4	15D UP TO 2Y	<=0.3
	1Y UP TO 3Y	0.2-0.4	2Y UP TO 5Y	0.2-0.4
	3Y UP TO 5Y	0.3-0.4	5Y UP TO 12Y	0.3-0.6
	5Y UP TO 7Y	0.3-0.5	12Y UP TO 15Y	0.4-0.8
	7Y UP TO 9Y	0.3-0.6	15Y UP TO 18Y	0.5-0.8
	9Y UP TO 11Y	0.3-0.6	>=18Y	0.5-1.0
	11Y UP TO 13Y	0.4-0.7		
	13Y UP TO 15Y	0.5-0.8		
	15Y UP TO 18Y	0.5-0.9		
	>=18Y	0.5-1.0		
	Male:		**Male:**	
	Age	**Values**	**Age**	**Values**
	0 UP TO 2M	0.3-0.9	0 UP TO 15D	0.3-0.9
	2M UP TO 1Y	0.2-0.4	15D UP TO 2Y	<=0.3
	1Y UP TO 3Y	0.2-0.4	2Y UP TO 5Y	0.2-0.4
	3Y UP TO 5Y	0.3-0.4	5Y UP TO 12Y	0.3-0.6
	5Y UP TO 7Y	0.3-0.5	12Y UP TO 15Y	0.4-0.8
	7Y UP TO 9Y	0.3-0.6	15Y UP TO 18Y	0.6-1.0
	9Y UP TO 11Y	0.3-0.6	>=18Y	0.7-1.3
	11Y UP TO 13Y	0.4-0.7		
	13Y UP TO 15Y	0.5-0.8		
	15Y UP TO 18Y	0.6-1.0		
	>=18Y	0.7-1.3		

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These changes are primarily to support the care of our pediatric patients and have been made in consultation with our pediatric specialists. The change to the adult (>18y) reference range for the Urine Protein to Creatinine Ratio is to standardize to the KDIGO (Kidney Disease Improving Global Outcomes) guideline for abnormal kidney function.

If you have any questions or concerns about these changes, please reach out to the Medical Director of Clinical Chemis-

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