Lab Chemistry Standardization – Meriter

The intent of this reference is to provide a resource for the Lab Chemistry Standardization changes impacting clinicians in the Meriter market hospital and clinic settings including Associated Physicians, Madison Women's Health, & Lafayette.

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Lab Chemistry Standardization Meriter Hospital & Clinics

Overview

UnityPoint Health System Lab has been working on standardizing our chemistry instrumentation and lab testing orders to include normal ranges, result comments, and units of measure where possible. This includes new instrument interfaces to be configured with the Sunquest Lab Information System. Regional Lab Chemistry experts across the system participated in a comprehensive review of the Chemistry lab orders including reference ranges and units of measure that will be standardized, and these recommendations have been approved by the Lab Clinical Service Group.

Many of the changes are being made behind the scenes in the Sunquest and Epic systems. This includes making front-facing changes to lab test orders and results in Epic. The transition will impact ordering workflows including modifications to preference lists, order sets, and ambulatory pathways.

The changes for Meriter Hospital and Clinics including Associated Physicians, Madison Women's Health, & Lafayette will go-live on Tuesday, June 16th, 2026, starting at 10:00 a.m.

Meriter Laboratories Chemistry Contacts

Who will be the main point of contact for our providers and/or lab staff when we have questions or concerns?

There is a team of leaders here to support you during this transition. Please feel free to reach out to any one of the following with questions or concerns:

- For Regional Informatics EPIC support, contact for Meriter Kirsten Lueder
- For Laboratory Chemistry Leader, contact Alice LeGore
- For Laboratory Manager, contact Katie Haakensen
- For Laboratory Director, contact Sarah Jefford
- For general questions, contact Amy Job at amy.job@unitypoint.org

Focused Lab Tests & Order Changes – Hospital & Clinics

The following chemistry lab testing changes will be visible to clinicians. The table below identifies the existing lab order that will be removed and other lab order option(s) to use instead. The table also identifies net new lab tests that will now be available.

Preference List Impact: Facility Preference lists will be updated by IT. User Preference list updates will need to be completed by the individual user to remove the current lab order and replace with the new lab order starting Tuesday, June 16th, 2026, after 10:00 a.m.

Facility	Current Lab Order & ID, New, or Removal	New Lab Order & ID to use starting 6/16/2026
Meriter Hospital & clinics, Associated Physicians, Madison Women's Health, Lafayette	Nutritional Panel (LAB5063) Sunquest (NUTRP)	Recommended alternative: Comprehensive Metabolic Panel (LAB17) - OR - Comprehensive Metabolic Panel – Fasting (LAB0017) + Lipid Panel (LAB18) GGT (LAB85) Phosphorus (LAB113)
Meriter Hospital & clinics, Associated Physicians, Madison Women's Health, Lafayette	Oncology 9 Panel (LAB5065) Sunquest (ONC9)	Recommended alternative: Comprehensive Metabolic Panel (LAB17) - OR -

		Comprehensive Metabolic Panel – Fasting (LAB0017) + LDH (LAB96)
Meriter Hospital & clinics, Associated Physicians, Madison Women's Health, Lafayette	Detox Chem Panel (LAB5060) Sunquest (DETOX)	Recommended alternative: Comprehensive Metabolic Panel (LAB17) - OR - Comprehensive Metabolic Panel – Fasting (LAB0017) + GGT (LAB85) Magnesium (LAB103) Phosphorus (LAB113)
Meriter Hospital & Clinics, Madison Women's Health	Hepatic Function Panel (LAB20) Sunquest (PLLIVR)	Hepatic Function Panel (LAB20) Sunquest (HEPATO)
Meriter Hospital & Clinics, Madison Women's Health, Lafayette	Syphilis (Treponema) Antibodies, IgG & IgM (LAB4215) Sunquest (SYPHS)	Syphilis (Treponema) Antibodies, IgG & IgM (LAB5650) Sunquest (SYPHS)

Reference Range and Interpretive Comment Changes

The following labs will have a new reference range and/or interpretive comment that will impact results.

Clinic locations who send these chemistry related labs or patients present for an outpatient lab draw within the Meriter market will see these changes for the tests identified.

Current Lab Test	Current Reference Range and/or Interpretive Note			New Reference Range and/or Interpretive Note Starting 6/16/2026		
25-Hydroxy Vitamin D, Total	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	30-100 ng/mL **Interpretive note appending to results – see below*	ALL	0+	>30.0 ug/mL **Interpretive note appending to results – see below*
	Vitamin D Status: Deficiency <20 ng/mL Insufficiency 20-30 ng/mL Sufficiency 30-100 ng/mL Possible Toxicity >100 ng/mL			Vitamin D Status: Deficiency <= 20 ng/mL Insufficiency 21-29 ng/mL Sufficiency >= 30 ng/mL Possible Toxicity >100 ng/mL		
Acetaminophen	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	<30.0 ug/mL **Interpretive note appending to results – see below*	ALL	0+	0.0-30.0 ug/mL **Interpretive note appending to results – see below*
	Therapeutic Range: 10.0-30.0 ug/mL Toxic Level: >100.0 ug/mL Interference by amitriptyline or imipramine can lower reported acetaminophen by 10% or more below the true value.			Therapeutic Range: 10.0-30.0 ug/mL Toxic Level: >100.0 ug/mL		

	Acetaminophen toxicity relates to post-dose rate interval. Toxicity is >200 ug/mL at 4 hours, >100 ug/mL at 8 hours and >50 ug/mL at 12 hours. Calculation of half-life may be helpful in determining the likelihood of hepatotoxicity in overdose cases.	
A/G Ratio	Sex: ALL; Age: 0+; Reference Range: 1.3-2.8	Sex: ALL; Age: 0+; Reference Range: *Not defined*
Alcohol	Sex: ALL; Age: 0+; Reference Range: <11 mg/dL **Interpretive note appending to results – see below* This test is for medical purposes only and not to be used for a legal blood alcohol limit. Results may be affected if the LDH results are greater than 2000 U/L.	Sex: ALL; Age: 0+; Reference Range: Not Detected **Interpretive note appending to results – see below* This test is for medical purposes only and not to be used for a legal blood alcohol limit. This assay is not able to detect alcohol levels below 11 mg/dL.
Alcohol Percent, calculated	Sex: ALL; Age: 0+; Reference Range: *Not defined*	Sex: ALL; Age: 0+; Reference Range: *Not defined* **Interpretive note appending to results – see below* This test is for medical purposes only and not to be used for a legal blood alcohol limit.
ALT	Sex: F; Age: 12+; Reference Range: <33 U/L Sex: M; Age: 12+; Reference Range: <41 U/L	Sex: F; Age: 12+; Reference Range: 10-35 U/L Sex: M; Age: 12+; Reference Range: 10-50 U/L
Anion Gap	Sex: ALL; Age: 0+; Reference Range: 7-14 mmol/L	Sex: ALL; Age: 0+; Reference Range: 6-14 mmol/L
AST	Sex: F; Age: 18+; Reference Range: <33 U/L Sex: M; Age: 18+; Reference Range: <41 U/L	Sex: F; Age: 18+; Reference Range: <35 U/L Sex: M; Age: 18+; Reference Range: <50 U/L
Bilirubin, Direct	Sex: ALL; Age: 8Days+; Reference Range: 0.0-0.3 mg/dL	Sex: ALL; Age: 18+; Reference Range: 0.0-0.2 mg/dL
*Note: Indirect Bilirubin calculation will be added to all UPH Standardized Chemistry panels that include Total Bilirubin and Indirect Bilirubin for all UPH markets.		
BUN/Creatinine Ratio	Sex: ALL; Age: 0+; Reference Range: 8.0-26.0	Sex: ALL; Age: 0+; Reference Range: 12.0-20.0
BUN	Sex: ALL; Age: 90+; Reference Range: *Not Defined*	Sex: ALL; Age: 90+; Reference Range: 8-23 mg/dL

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Creatinine Clearance Rate	Sex	Age	Reference Range	Sex	Age	Reference Range	
	ALL	12+	90-140 mL/min	ALL	12+	66-143 mL/min	
Cholesterol, HDL	Sex	Age	Reference Range	Sex	Age	Reference Range	
	ALL	0+	**Interpretive note appending to results – see below*	ALL	0+	**Interpretive note appending to results – see below*	
	Results may be affected by plus or minus 10% if Triglyceride value is greater than 1199 mg/dL.			<40 mg/dL: Low HDL-Cholesterol (major risk factor for CHD) >=60 mg/dL: High HDL-Cholesterol ("negative" risk factor for CHD)			
Cholesterol/HDL Ratio	Sex	Age	Reference Range	Sex	Age	Reference Range	
	F	0+	1.5-5.5	F	0+	<4.5	
	M	0+	1.5-6.3	M	0+	<4.5	
Estimated Glomerular Filtration Rate (eGFR)	Sex	Age	Reference Range	Sex	Age	Reference Range	
	ALL	0+	>60 mL/min[1.73_m2] **Interpretive note appending to results – see below*	ALL	0+	*Not Defined* **Interpretive note appending to results – see below*	
	GFR >90 Normal or elevated GFR. GFR <15 (or dialysis) Kidney failure. (CKD Stage5) GFR 60-90 Mild decreased GFR. GFR 30-59 Moderate decreased GFR. (CKD Stage 3) GFR 15-29 Severe decreased GFR. (CKD Stage 4)			GFR >90 Normal or elevated GFR. GFR <15 (or dialysis) Kidney failure. (CKD Stage5) GFR 60-90 Mild decreased GFR. GFR 30-59 Moderate decreased GFR. (CKD Stage 3) GFR 15-29 Severe decreased GFR. (CKD Stage 4)			
Estradiol	Sex	Age	Reference Range	Sex	Age	Reference Range	
	F	0+	*Not Defined* **Interpretive note appending to results – see below*	F	0+	*Not Defined* **Interpretive note appending to results – see below*	
	Follicular phase: 12-233 pg/mL Ovulation phase: 41-398 pg/mL Luteal phase: 22-341 pg/mL Post-menopausal: <5-138 pg/mL Pregnancy: 1st Trimester: 154-3,243 pg/mL 2nd Trimester: 1,561-21,280 pg/mL 3rd Trimester: 8,525->30,000 pg/mL			Follicular: 30.9-90.4 pg/mL Ovulation: 60.4-533 pg/mL Luteal: 60.4-232 pg/mL Post-menopausal: <5-138 pg/mL First Trimester: 154-3243 Second Trimester: 1561-21280 Third Trimester: 8525->30000			
	M	1-10	0-20 pg/mL	M	1-10	*Not Defined*	
	M	10+	11-43 pg/mL	M	10+	11-43 pg/mL	
Follicle Stimulating Hormone (FSH)	Sex	Age	Reference Range	Sex	Age	Reference Range	

F	1+	*Not Defined* **Interpretive note appending to results – see below*	
1-3 Years 1.2-5.7 m[IU]/mL 4-8 Years 0.8-3.0 m[IU]/mL Tanner I 0.5-5.1 m[IU]/mL Tanner II 2.4-8.7 m[IU]/mL Tanner III 3.8-8.1 m[IU]/mL Tanner IV 1.1-9.6 m[IU]/mL Tanner V 2.0-7.6 m[IU]/mL Menstruating Females: Follicular 3.5-12.5 m[IU]/mL Ovulation 4.7-21.5 m[IU]/mL Luteal 1.7-7.7 m[IU]/mL Post Menopause 23.8-134.8 m[IU]/mL			
M	1-17	*Not Defined* **Interpretive note appending to results – see below*	
1-3 Years 0.2-1.5 m[IU]/mL 4-8 Years 0.5-1.6 m[IU]/mL Tanner I 0.7-3.1 m[IU]/mL Tanner II 1.1-6.9 m[IU]/mL Tanner III 1.8-6.2 m[IU]/mL Tanner IV 1.8-4.8 m[IU]/mL Tanner V 1.4-6.8 m[IU]/mL			
M	18+	1.5-12.4 m[IU]/mL	

F	1+	*Not Defined* **Interpretive note appending to results – see below*	
<12 months: 1.2-12.5 mIU/L 12 months-10 years: 0.5-6.0 mIU/L >10 years-15 years: 0.9-8.9 mIU/L >15 years-18 years: 0.7-9.6 mIU/L Premenopausal: Follicular 3.5-12.5 m[IU]/mL Ovulation 4.7-21.5 m[IU]/mL Luteal 1.7-7.7 m[IU]/mL Post Menopause 25.8-134.8 m[IU]/mL TANNER STAGES* Stage I: 0.6-4.1 IU/L Stage II: 0.3-5.8 IU/L Stage III: 0.1-7.2 IU/L Stage IV: 0.3-7.0 IU/L Stage V: 0.4-8.6 IU/L *Puberty onset (transition from Tanner stage I to Tanner stage II) occurs for girls at a median age of 10.5 (+/- 2) years. There is evidence that it may occur up to 1 year earlier in obese girls and in African American girls. Progression through Tanner stages is variable. Tanner stage V (adult) should be reached by age 18.			
M	1-17	*Not Defined* **Interpretive note appending to results – see below*	
Age: Reference Ranges: <12 months: < or =3.3 mIU/L 12 months-5 years: < or =1.9 mIU/L >5 years-10 years: < or =2.3 mIU/L >10 years-15 years: 0.6-6.9 mIU/L >15 years-18 years: 0.7-9.6 mIU/L >18 years: 1.2-15.8 mIU/L TANNER STAGES* Stage I: <1.5 mIU/L Stage II: <3.0 mIU/L Stage III: 0.4-6.2 mIU/L Stage IV: 0.6-5.1 mIU/L Stage V: 0.8-7.2 mIU/L *Puberty onset occurs for boys at a median age of 11.5 (+/- 2) years. For boys, there is no proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage V (adult) should be reached by age 18.			
M	18+	1.5-12.4 m[IU]/mL	

Gentamicin, Random

Sex	Age	Reference Range
ALL	0+	*Not Defined*

Sex	Age	Reference Range
ALL	0+	*Not Defined*

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						Interpretive note appending to results – see below
				Generally accepted for therapeutic effectiveness: Peak 6.0-10.0 ug/mL Trough 0.5-2.0 ug/mL		
Globulin	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	2.0-4.0 g/dL	ALL	0+	*Not Defined*
Glucose, Fasting	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	1+	70-99 mg/dL	ALL	1+	70-100 mg/dL
Glucose, Non-fasting	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	1+	70-99 mg/dL	ALL	1+	70-180 mg/dL
Glycosylated Hemoglobin A1c	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	4.0-5.6%	ALL	0+	*Not Defined* *Interpretive note appending to results – see below*
				Normal range <5.7% Pre diabetic 5.7-6.4% Diabetic >=6.5%		
Hepatitis A Antibody, IgM	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	*Interpretive note appending to results – see below*	ALL	0+	*Interpretive note appending to results – see below*
	Equivocal/Borderline note: IgM anti-HAV antibodies may or may not be present. Recommend retesting at approximately 1 week intervals to distinguish between early acute or late acute stages of HAV Infection.			Equivocal/Borderline note: IgM anti-HAV antibodies may or may not be present. Recommend retesting at approximately 2 week intervals to distinguish between early acute or late acute stages of HAV infection.		
Hepatitis B Surface Antibody	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	Reactive	ALL	0+	*Not Defined* *Interpretive note appending to results – see below*
				Unvaccinated: <10 mIU/mL Vaccinated: >=10 mIU/mL		
Iron	Sex	Age	Reference Range	Sex	Age	Reference Range
	F	0+	37-145 ug/dL	F	0+	37-145 ug/dL
	M	0-11	37-145 ug/dL	M	0-11	37-145 ug/dL
	M	12+	59-158 ug/dL	M	12+	61-157 ug/dL
Iron-Binding Capacity, Total (TIBC)	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	220-460 ug/dL	ALL	0+	250-400 ug/dL

Iron-Binding Capacity, Unsaturated (UIBC)	Sex	Age	Reference Range	Sex	Age	Reference Range	
	ALL	0+	112-346 ug/dL	ALL	0+	112-347 ug/dL	
Iron Saturation	Sex	Age	Reference Range	Sex	Age	Reference Range	
	F	0+	8-60%	ALL	0+	14-50%	
	M	0+	15-60%				
Luteinizing Hormone (LH)	Sex	Age	Reference Range	Sex	Age	Reference Range	
	F	0+	*Not Defined* **Interpretive note appending to results – see below*	F	0+	*Not Defined* **Interpretive note appending to results – see below*	
	Premenopausal: Follicular 3.5-12.5 m[IU/mL] Luteal 1.7-7.7 m[IU]/mL Peak 4.7-21.5 m[IU]/mL Peak is approx. 2 times the baseline Postmenopausal 25.8-134.8 m[IU]/mL			Follicular 2.4-12.6 m[IU/mL] Ovulation 14.0-95.6 m[IU]/mL Luteal 1.0-11.4 m[IU]/mL Post Menopausal 7.7-58.5 m[IU]/mL			
Phenobarbital	Sex	Age	Reference Range	Sex	Age	Reference Range	
	ALL	0+	10.0-30.0 ug/mL	ALL	0+	10.0-30.0 ug/mL **Interpretive note appending to results – see below*	
				The therapeutic range of phenobarbital is correlated with seizure control as well as the absence of toxic effects, and is generally accepted to be between 10 and 30 ug/mL.			
Phenytoin	Sex	Age	Reference Range	Sex	Age	Reference Range	
	ALL	0+	**Interpretive note appending to results – see below*	ALL	0+	**Interpretive note appending to results – see below*	
	Patients given Fosphenytoin should not be tested until at least 4 hours after last dose by intramuscular dose or at least 2 hours after an intravenous dose.			The therapeutic range of phenytoin is correlated with seizure control as well as the absence of toxic effects, and is generally accepted to be between 10 and 20 ug/mL (39.6 and 79.2 umol/L).			
Potassium	Sex	Age	Reference Range	Sex	Age	Reference Range	
	ALL	0+	3.5-5.1 mmol/L	ALL	0+	3.4-5.1 mmol/L	
Procalcitonin	Sex	Age	Reference Range	Sex	Age	Reference Range	
	ALL	18+	<2.00 ng/mL **Interpretive note appending to results – see below*	ALL	0+	0.0-0.1 ng/mL **Interpretive note appending to results – see below*	
	ALL	0-18	<0.08 ng/mL **Interpretive note appending to results – see below*	< 0.10 – 0.25: Low probability of bacterial infection Antibiotic therapy generally not indicated unless clinical context warrants use 0.26 – 0.50: Increased probability of bacterial infection			

	Systemic bacterial infection is unlikely for a result <=0.25 ng/mL. Systemic bacterial infection is possible for a result >0.5 ng/mL. A concentration of >2.00 ng/mL represents a high risk of severe sepsis and/or septic shock. Procalcitonin concentrations between 0.5 and 2.0 ng/mL should be interpreted considering the patient's history. Specimens with biotin concentrations up to 1200 ng/mL did not demonstrate bias in measured PCT values. Specimens with biotin concentrations >1200 ng/mL and <=2600 ng/mL demonstrated <=10% negative bias in measured PCT studies.	Antibiotic therapy may be considered based on clinical evaluation >0.50: Higher probability of bacterial infection Antibiotic therapy encouraged with consideration for false positive results False positives can be seen in patients with a variety of illnesses, including but not limited to severe trauma, shock, recent surgery, burns, renal insufficiency, severe liver disease, COVID-19, and certain malignancies.
Progesterone	Sex: F; Age: 0+; Reference Range: *Not Defined** **Interpretive note appending to results – see below* Progesterone Reference Range Follicular Phase 0.20-1.40 ng/mL Luteal Phase 3.30-25.60 ng/mL Pregnant Females First Trimester 11.20-90.00 ng/mL Second Trimester 25.60-89.40 ng/mL Third Trimester 48.40-422.50 ng/mL Sex: M; Age: 0+; Reference Range: 0.30-1.20 ng/mL	Sex: F; Age: 0+; Reference Range: *Not Defined** **Interpretive note appending to results – see below* Postmenopause: <0.05-0.126 1st Trimester: 11.0-44.3 2nd Trimester: 25.4-83.4 3rd Trimester: 58.7-214 Follicular: <0.050-0.193 Ovulation: 0.055-4.14 Luteal: 4.11-14.5 Sex: M; Age: 0+; Reference Range: <0.15 ng/mL
Prolactin	Sex: F; Age: 19+; Reference Range: 4.8-23.3 ng/mL **Interpretive note appending to results – see below* Female: Elevation may occur if the patient was not awake at least 3 hours prior to specimen collection, pregnant, less than 2 months post-partum, nursing in the last 4 hours or user of oral contraceptives or tranquilizers. Tanner I 3.6-12.0 ng/mL Tanner II-III 2.6-18.0 ng/mL Tanner IV-V 3.2-20.0 ng/mL Pregnant Females: Third Trimester 95.0-473.0 ng/mL Sex: M; Age: 12+; Reference Range: 4.0-15.2 ng/mL **Interpretive note appending to results – see below* Male: Elevation may occur if the patient was not awake at least 3 hours prior to specimen collection, pregnant, less than 2 months post-partum, nursing in the last 4 hours or user of oral contraceptives or tranquilizers.	Sex: F; Age: 19+; Reference Range: 4.8-23.3 ng/mL **Interpretive note appending to results – see below* Female Tanner: Tanner 1: 2.0-20.0 Tanner 2: 4.0-23.0 Tanner 3: 4.0-23.0 Tanner 4: 6.0-23.0 Tanner 5: 5.0-23.0 3rd Trimester: 95.0-473.0 Sex: M; Age: 12+; Reference Range: 4.0-15.2 ng/mL **Interpretive note appending to results – see below* Male Tanner: Tanner 1: 3.0-20.0 Tanner 2: 4.0-19.0 Tanner 3: 4.0-23.0 Tanner 4: 6.0-20.0 Tanner 5: 7.0-32.0

	Tanner I <=10.0 ng/mL Tanner II-III <=6.1 ng/mL Tanner IV-V 2.8-11.0 ng/mL	
Prostate-Specific Antigen (PSA)	Sex: M; Age: 0-40; Reference Range: 0.00-2.00 ng/mL Sex: M; Age: 41-49; Reference Range: 0.00-2.50 ng/mL Sex: M; Age: 50-59; Reference Range: 0.00-3.50 ng/mL Sex: M; Age: 60-69; Reference Range: 0.00-4.50 ng/mL Sex: M; Age: 70-79; Reference Range: 0.00-6.50 ng/mL Sex: M; Age: 80+; Reference Range: 0.00-7.20 ng/mL	Sex: M; Age: 0-50; Reference Range: <2.51 ng/mL Sex: M; Age: 51-60; Reference Range: <3.51 ng/mL Sex: M; Age: 61-70; Reference Range: <4.51 ng/mL Sex: M; Age: 71+; Reference Range: <6.51 ng/mL
Parathyroid Hormone (PTH), Intact	Sex: ALL; Age: 0+; Reference Range: 15.0-65.0 pg/mL	Sex: ALL; Age: 0+; Reference Range: 17.9-58.6 pg/mL
Rubella Antibody, IgG	Sex: ALL; Age: 0+; Reference Range: *Not Defined* **Interpretive note appending to results – see below* Negative note: A negative rubella antibody indicates absence of immunity. Positive note: Indicates measurable antibody to rubella virus at a level equal to or greater than 10 IU/mL. A positive rubella antibody suggests previous infection or vaccination and indicates immunity to rubella.	Sex: ALL; Age: 0+; Reference Range: *Not Defined* **Interpretive note appending to results – see below* Reference value: Vaccinated: Positive Unvaccinated: Negative
Sodium (for dialysis)	Sex: ALL; Age: 0+; Reference Range: 135-145 mmol/L	Sex: ALL; Age: 0+; Reference Range: 136-145 mmol/L
Syphilis (Treponema) Antibodies, IgG & IgM	Sex: ALL; Age: 0+; Reference Range: Nonreactive **Interpretive note appending to results – see below* Reactive note: Reactive for treponemal antibodies. May indicate recent, past, or successfully treated Syphilis infection. *Reportable to the Dept of Public Health* *RPR result to follow.	Sex: ALL; Age: 0+; Reference Range: Nonreactive **Interpretive note appending to results – see below* Reactive note: Reactive for treponemal antibodies. May indicate recent, past, or successfully treated syphilis infection. Specimen to be tested by RPR.
Testosterone, Total	Sex: F; Age: 0-17; Reference Range: **Interpretive note appending to results – see below* Females:	Sex: F; Age: 0-17; Reference Range: **Interpretive note appending to results – see below* Females:

<table>
<tr><td></td><td>Tanner I <17 ng/dL
Tanner II 4.5-40 ng/dL
Tanner III 10-63 ng/dL
Tanner IV and V 11-62 ng/dL
<table><tr><td>F</td><td>18-49</td><td>8.4-48.1 ng/dL</td></tr><tr><td>F</td><td>50+</td><td>2.9-40.8 ng/dL</td></tr><tr><td>M</td><td>0-17</td><td>*Interpretive note appending to results – see below</td></tr></table>Males:
Tanner I <15 ng/dL
Tanner II 3.3-303 ng/dL
Tanner III 10-851 ng/dL
Tanner IV and V 162-847 ng/dL</td><td>Tanner stage 1:<3-6
Tanner stage 2:<3-10
Tanner stage 3: <3-24
Tanner stage 4: <3-27
Tanner stage 5: 5-38
<table><tr><td>F</td><td>18-49</td><td>8-48 ng/dL</td></tr><tr><td>F</td><td>50+</td><td>3-41 ng/dL</td></tr><tr><td>M</td><td>0-17</td><td>*Interpretive note appending to results – see below</td></tr></table>Males:
Tanner stage 1: <3
Tanner stage 2: <3-432
Tanner stage 3: 65-778
Tanner stage 4: 180-763
Tanner stage 5: 188-882</td></tr>
<tr><td>Tobramycin, Random</td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>Not Defined</td></tr></table></td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>Not Defined
*Interpretive note appending to results – see below</td></tr></table>Trough 0.5-2.0
Peak 6.0-10.0</td></tr>
<tr><td>Urine Calcium/Creatinine Ratio, Random</td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>0.0-0.4</td></tr></table></td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>Not Defined</td></tr></table></td></tr>
<tr><td>Urine Glucose, Random</td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>1-15 mg/dL</td></tr></table></td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>Not Defined</td></tr></table></td></tr>
<tr><td>Urine Glucose, 24-hour</td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>0-500 mg/24H</td></tr></table></td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td><500 mg/24H</td></tr></table></td></tr>
<tr><td>Urine Microalbumin, 24-hour Excretion Rate</td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>Not Defined</td></tr></table></td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>Not Defined
*Interpretive note appending to results – see below</td></tr></table>A1 <30 mg/g
A2 30-300 mg/g
A3 >300 mg/g</td></tr>
<tr><td>Urine Microalbumin/ Creatinine Ratio</td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>Not Defined</td></tr></table></td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td><30 mg/g[creat]</td></tr></table></td></tr>
<tr><td>Urine Microalbumin, Random</td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>Not Defined</td></tr></table></td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>0-2 mg/dL</td></tr></table></td></tr>
<tr><td>Urine Phosphorus, 24-hour</td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>400-1360 mg/24H</td></tr></table></td><td><table><tr><td>Sex</td><td>Age</td><td>Reference Range</td></tr><tr><td>ALL</td><td>0+</td><td>400-1300 mg/24H</td></tr></table></td></tr>
</table>

Lab Chemistry Standardization Meriter Hospital & Clinics

Urine Total Protein, 24-hour	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	0-150 mg/24H	ALL	0+	<150 mg/24H
Urine Total Protein/Creatinine Ratio	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	0.0-0.17 mg/mg	ALL	0+	*Not Defined*
Urine Uric Acid, 24-hour	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	250-750 mg/24H	ALL	0+	200-1000 mg/24H
Vancomycin, Peak	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	25.0-40.0 ug/mL	ALL	0+	20.0-40.0 ug/mL
Vancomycin, Random	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	*Not Defined*	ALL	0+	*Not Defined* **Interpretive note appending to results – see below* Trough Uncomplicated MRSA: 10-15 Complicated MRSA: 15-20 Peak 20-40
Vancomycin, Trough	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0+	5.0-20.0 ug/mL	ALL	0+	*Not Defined* **Interpretive note appending to results – see below* Uncomplicated MRSA: 10-15 Complicated MRSA: 15-20
Vitamin B12	Sex	Age	Reference Range	Sex	Age	Reference Range
	ALL	0-18	211-946 pg/mL	ALL	0-18	232-1245 pg/mL

Clinical Laboratory Test Catalog Updates

Please note new testing details will not be visible in the test catalog until go-live on Tuesday, June 16th, 2026.

CLICK HERE for the UnityPoint Health – Meriter Laboratories Test Catalog

Ambulatory Pathway Changes (Clinic)

The following Ambulatory SmartSet/Pathway/Express Lanes will be updated based on the focused test and lab order changes in Epic.

Change: Syphilis (Treponema) Antibodies, IgG & IgM (LAB4215) will be removed and replaced with Syphilis (Treponema) Antibodies, IgG & IgM (LAB5650).

- UPH AMB Well 18-39 [1226]
- UPH AMB Well 18-39 Express Lane [1251]
- UPH AMB Well 40-64 [1237]
- UPH AMB Well Adult 40-64 Express Lane [1250]
- UPH AMB PNC OB Nursing Interview Nurse Visit [736]
- APL AMB GYN Abnormal Uterine Bleeding [804]

- APL AMB Sexually Transmitted Diseases Screening [820]
- UPH AMB PNC Prenatal Labs [1050]
- UPH AMB OB Initial Prenatal Vst (Express Lane) [56]
- UPH AMB OB Intake Labs [1139]

Order Set Changes (Hospital/ED)

The following hospital and/or ED order sets will be updated based on the focused test and lab order changes identified below. Providers with user order set versions will get a notification when they open the impacted order set on what lab order has been removed.

Change: Syphilis (Treponema) Antibodies, IgG & IgM (LAB4215) will be removed and replaced with Syphilis (Treponema) Antibodies, IgG & IgM (LAB5650).

- Pre Term Labor Admission [1233029]
- OB Premature ROM Admission [1233028]
- OB Cesarean Birth Pre-Op Enhanced Recovery After Surgery ERAS [1233572]
- Cesarean Birth Pre Procedure [1233205]
- Congenital Syphilis Evaluation and Treatment Focused [1234164]
- Labor Admission [1233025]
- Labor Protocol Orders [1234037]