## UVMHN PATHOLOGY & LABORATORY MEDICINE - SEPTEMBER 15, 2023

## TEST UPDATE Platform Changes for Urinalysis Testing UVMMC

Effective 11/09/2023, the UVMMC Laboratory will be changing the platform for automated chemical and sediment urinalysis from the Arkray Aution 4050 to the Sysmex UN-3000. The Sysmex UN3000 platform is composed of three modules: Siemens CLINITEK Novus (chemical), Sysmex UF-5000 (sediment flow cytometer), and Sysmex UD-10 (sediment digital imaging system). Comparisons between the new UN-3000 and old Arkray Aution 4050 platforms show very good correlation of results both for chemical and sediment analysis.

All UVMHN laboratories will be standardizing the ordering and resulting of urinalysis testing. This standardization includes:

- Updating the naming of the urinalysis tests
- Updating to reporting
- Updated criteria for reflexing the UA to culture
- A new orderable, UA Cascade to Culture

## Test Name Updates:

Updated Orderable Name	Epic Code	Atlas Code	Mayo Access ID	Order LOINC
UA Chemical Only	LAB3695	ARKUA	N/A	24356-8
UA Sediment Only	LAB3696	ARKUMI	N/A	24365-9
UA Chemical & Sediment	LAB348	ARKCOM	N/A	24356-8
UA Sediment + Reflex to Culture	LAB9896	LAB9896	N/A	24365-9
UA Chemical & Sediment + Reflex to Culture	LAB14286	LAB14286	N/A	24356-8

## **Reporting Updates**

## **Chemical Reporting:**

	Normal Result		Abnormal Re	esult
Component	Current	New	Current	New
			2.0, 3.0, 4.0, 6.0, >=8.0 mg/	2.0, 4.0, >=8.0 mg/
Urobilinogen	Normal	0.2, 1.0 mg/dL	dL	dL

## **Sediment Reporting:**

	Normal Result		Abnormal Result		
Component	Current	New	Current	New	
WBC	0-3/hpf	No change	4-10, 11-50, >=50/hpf	4-9, 10-50, >=50/hpf	
	Not reported if		Type and Number as	· · · · ·	
Crystal	None Seen	No change	Few, Moderate, Many	Only Type	
	Not reported if		Type and Number as		
Cast	None Seen	No change	Few, Moderate, Many	Only Type	

#### **PATHOLOGY & LABORATORY MEDICINE**

111 Colchester Avenue | Mail Stop: 233MP1 | Burlington, Vermont 05401

## PHONE LABORATORY CUSTOMER SERVICE

(802) 847-5121 | (800) 991-2799

Page 1 of 3



# TEST UPDATE Platform Changes for Urinalysis Testing UVMMC

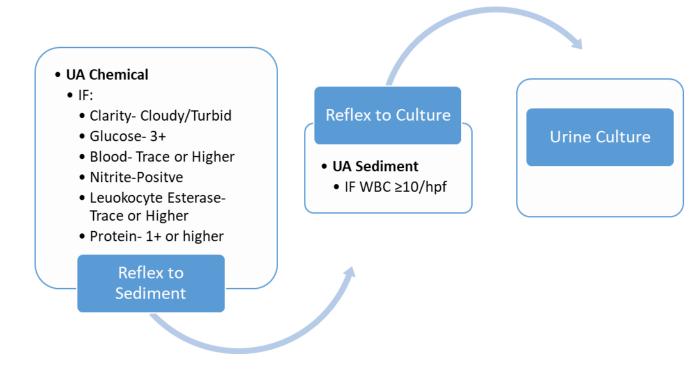
UVMHN PATHOLOGY & LABORATORY MEDICINE - SEPTEMBER 15, 2023

## Reflex Criteria Update:

Reflex to Culture Criteria			
Current	New		
UA Sediment with >=4/hpf WBC present	UA Sediment with >=10/hpf WBC present		

## New UA Cascade to Culture Test:

The new test, UA Cascade to Culture, includes a chemical analysis and, depending on the results, can reflex a sediment analysis. If the sediment contains >=10/hpf WBCs, then a culture will be reflexed.



The Bacterial Culture, Urine test is also available as a stand-alone orderable and can be ordered directly in specific clinical circumstances (i.e. pregnant women, neutropenic fever, and neonates).

Orderable Name	Epic Code	Atlas Code	Mayo Access ID	Order LOINC
Bacterial Culture, Urine	LAB239	URC	FAH5109	630-4

## PATHOLOGY & LABORATORY MEDICINE

111 Colchester Avenue | Mail Stop: 233MP1 | Burlington, Vermont 05401

#### PHONE LABORATORY CUSTOMER SERVICE

(802) 847-5121 | (800) 991-2799

Page 2 of 3



#### UVMHN PATHOLOGY & LABORATORY MEDICINE - SEPTEMBER 15, 2023

## TEST UPDATE Platform Changes for Urinalysis Testing UVMMC

New Orderable	Epic Code	Atlas Code	Mayo Access ID	Order LOINC	CPT Code		
UA Cascade to Culture	LAB14587	LAB14587	N/A	58077-9	81003		
Result Components	Epic Code	Atlas Code	Mayo Access ID	Result LOINC	Notes		
Color	12301000937	UCOL	N/A	5778-6			
Clarity	12301000938	UCLAR	N/A	32167-9			
Glucose	12301000939	UGLU	N/A	25428-4			
Bilirubin	12301000940	UBIL	N/A	5770-3			
Ketones	12301000941	UKET	N/A	2514-8			
Specific Gravity, Urine	12301000942	URSG	N/A	5811-5			
Blood	12301000943	UBLD	N/A	5794-3			
Urobilinogen	12301000946	UURO	N/A	20405-7			
Nitrite	12301000947	UNIT	N/A	5802-4			
Leukocyte Esterase	12301000948	ULEU	N/A	5799-2			
Protein	12301000945	UPROT	N/A	20454-5			
рН	12301000944	UPH	N/A	5803-2			
Specimen Requirements:							
Container	Specimen	Temperature	Collect/Submit	Min Vol	Stability		
Sterile Container	Urine	Refrigerate	12 mL	5 mL	1 day		
Collection Information:							
Clean catch specimen preferred.							
First morning voided urine preferred.							
Samples greater than 8 hours old may be unreliable.							

If you have any questions or concerns about these changes, please contact the Medical Director of Clinical Chemistry at UVMMC, Dr. Clayton Wilburn, at (<u>clayton.wilburn@uvmhealth.org</u>).

#### **PATHOLOGY & LABORATORY MEDICINE**

111 Colchester Avenue | Mail Stop: 233MP1 | Burlington, Vermont 05401

#### PHONE LABORATORY CUSTOMER SERVICE

(802) 847-5121 | (800) 991-2799

## University of Vermont HEALTH NETWORK

Page 3 of 3