

# Legacy Laboratory Services

## Legacy Lab Alert

May 2018

An Important Update from Legacy Laboratory Services

### Update: Urine Creatinine Results Will Decrease By 13.5%

As of May 23, 2018, urine creatinine results will decrease approximately 13.5% due to the manufacturer improving the traceability of their calibrators. Similarly, creatinine clearance will decrease. However, all urine tests divided by the lower urine creatinine result will increase, (i.e., urine albumin/creatinine ratio, urine calcium/creatinine ratio, and urine protein/creatinine ratio). Beckman-Coulter standardized their calibrators to an Isotope Dilution Mass Spectrometry reference method using the higher order reference material (NIST SRM 3667). As a result of this improvement, the method will align better with peers.

Legacy Laboratory Services performed an in-house comparison of the current calibrators with the new calibrators and obtained similar results. **In addition, we performed reference range verification studies, which indicated that urine calcium/creatinine reference range needed to be revised (Table 1).** Urine Albumin/Creatinine ratio is being modified to be consistent with recommendations by the American Diabetes Association.<sup>2</sup>

**Table 1: Reference Ranges for Tests Using Urine Creatinine**

ORDERABLE	UNITS	AGE	NEW		CURRENT	
			FEMALE	MALE	FEMALE	MALE
Urine Creatinine	g/day	All	0.6-1.6	0.8-1.8	0.6-1.6	0.8-1.8
Urine Albumin/ Creatinine Ratio	mg/gCR	All	0.0-29.9	0.0-29.9	0.0-30.0	0-30.0
Urine Calcium/ Creatinine Ratio	mg/mgCR	All	0.00-0.19	0.00-0.19	0.00-0.14	0.00-0.14
	mg/gCR	All	0-199	0-199	0-140	0-140
Urine Protein/ Creatinine Ratio	mg/mgCR	All	0.000-0.200	0.000-0.200	0.000-0.200	0.000-0.200
Creatinine Clearance	mL/min/ 1.73 m <sup>2</sup>	0-19	Not established	Not established	Not established	Not established
		20-29	72-110	94-140	72-110	94-140
		30-39	66-104	88-134	66-104	88-134
		40-49	59-97	81-127	59-97	81-127
		50-59	53-97	75-121	53-97	75-121
		60-69	46-84	68-114	46-84	68-114
		70-79	40-78	62-108	40-78	62-108
		80-89	34-72	56-102	34-72	56-102
≥90	28-66	50-96	28-66	50-96		

#### References:

1. Product Announcement: All AU and DxC AU Clinical Chemistry Systems - Update to the DR0091 Urine Calibrator Traceability for Urine Creatinine from Lot 1708088, Beckman-Coulter, C22857-AA, January 2018.
2. Diabetes Prevention Program Research Group, Changes in Albumin Excretion in the Diabetes Prevention Program, Diabetes Care, 2009, 32(4): 720-725.

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Legacy Laboratory Client Services: 503-413-1234, 877-270-5566, [www.legacyhealth.org/labservices](http://www.legacyhealth.org/labservices)