

Care New England

To: Participating Physicians, Healthcare Providers, and Nursing Staff

From: Cunxian Zhang, MD, PhD, Chief of Pathology and Laboratory Medicine
Kent Hospital

C. James Sung, MD, Chief of Pathology and Laboratory Medicine
Women & Infants Hospital
Executive Chief of Pathology and Laboratory Medicine, Care New England

Date: May 21, 2024

RE: Updates on Urinalysis Testing

The Laboratory is pleased to announce that we are upgrading our automated chemistry urinalysis platform to the new Arkray Aution Max AX-4030 (part of the new Beckman DXU Iris Workcell), effective May 29, 2024.

The new platform will provide greater precision and accuracy on urinalysis test results (see attached page for comparison between the current and new reporting structure).

If you have any questions, please feel free to contact Georgette Gatos, extension 35270 at Kent Hospital or Michele Boisclair, extension 41196 at Women and Infants Hospital.

Thank you for your attention.



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Current UA Method: Beckman iChem Velocity

New UA Method: Arkray Aution Max AX-4030

Urinalysis Test	Reporting
Glucose (mg/dL)	Current: Negative, 50, 150, ≥ 500
	New: Negative, 30, 50, 70, 100, 150, 200, 300, 500, 1000, >1000
Protein (mg/dL)	Current: Negative, 30, 100, ≥ 500
	New: Negative, 10, 20, 30, 50, 70, 100, 200, 300, 600, >600
Bilirubin	Current: Negative, Positive
	New: Negative, 1+, 2+, 3+, 4+
Urobilinogen (mg/dL)	Current: Negative, 2.0, 4.0, >4.0
	New: Negative, 2.0, 3.0, 4.0, 6.0, 8.0, 12.0, >12.0
pH	Current: 5.0, 6.0, 7.0, 8.0, 9.0
	New: 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0
Blood	Current: Negative, 1+, 2+, 3+
	New: Negative, 1+, 2+, 3+, 4+
Ketones	Current: Negative, Trace, 1+, 2+
	New: Negative, Trace, 1+, 2+, 3+, 4+
Nitrite	Current: Negative, Positive
	New: Negative, Positive
Leukocyte Esterase	Current: Negative, Positive
	New (Leu/μL): Negative, 25, 75, 250, 500
Color	Current: Colorless, Yellow, Amber, Red, Straw, Green, Blue
	New: Colorless, Yellow, Orange, Brown, Red, Violet, Blue, Green
Squamous Epithelial Cells (Kent Only)	Current: Number per Low Power Field (/LPF)
	New: Number per High Power Field (/HPF)
Specific Gravity	Current SG Upper Limit: >1.060
	New S.G. Upper Limit: 1.050



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