



# TEST INFORMATION UPDATE

## Urine Culture – ID All Organisms Test Discontinued

**Effective Date: January 18, 2023**

Effective January 18, 2023, Vanderbilt University Medical Center (VUMC) diagnostic laboratories will no longer offer an “ID All” option for routine urine cultures. Urine culture reporting will be performed according to Infectious Diseases Society of America and American Society for Microbiology guidelines.<sup>1-5</sup> These guidelines recommend identification and susceptibility testing for up to 1-2 typical uropathogens with growth at >10,000 CFU/mL.

- Urine cultures will continue to require reflex from a positive UA in the vast majority of patients.
- Urine cultures can be ordered regardless of UA results in a patients who meet specific criteria (i.e., <25 months of age, currently pregnant, neutropenic with ANC <100 or total WBC <500, or those with a complex urologic history at high risk for UTI).

Review of VUMC “ID All” urine cultures in 2021 demonstrated low clinical value associated with this high-resource laboratory test:

- 35% were ordered in error
- 25% of cases identified contamination and/or colonization
- results of the cultures often led to unnecessary antibiotic prescriptions

For patients undergoing a urological procedure, an enhanced urine culture option will be available, as identification of growth outside standard urine culture conditions may be appropriate<sup>6</sup>. This test is reserved for patients seen by urology who are undergoing a endourological procedure associated with mucosal trauma. Use of the enhanced urine culture will be monitored.

### References

1. Claeys et al. 2021. Optimal urine culture diagnostic stewardship practice – results from an expert modified-Delphi procedure. *Clin Infect Dis*. 75:382-89.
2. Miller et al. A guide to utilization of the microbiology laboratory for diagnosis of infectious diseases: 2018 update by the IDSA and ASM. *Clin Infect Dis*. 67:e1-94.
3. Hooton. 2010. Diagnosis, Prevention and Treatment of catheter-associated urinary tract infections in adults: 2009 international practice guidelines from the IDSA. *Clin Infect Dis*. 50:625-663.
4. Chan. 2020. Urine cultures. In: *Clinical Microbiology Procedures Handbook*. American Society for Microbiology, Washington DC.
5. Sfeir and Hooton. 2018. Practices of clinical microbiology laboratories in reporting voided urine culture results. *Clin Microbiol Infect*. 24:66-70.
6. Nicolle et al. 2019. Clinical practice guidelines for the management of asymptomatic bacteriuria: 2019 update by the IDSA. *Clin Infect Dis*. 68:e83-e110