Routine urine culture results can be affected by several factors, including variance in methods of specimen collection and the effect of previous or concurrent use of antimicrobial agents on organism viability.

- Patient mean age was 64 years (range 24-94), 63% female.
- Most common comorbidities include diabetes 30%, urine catheter 26%, cancer 16%, immunosuppressant 11% and renal stone 5%. 33% did not have symptoms.
- TEM-PCR detected at least one bacterial target in 78% while culture was positive in 53%.
- Most common organisms detected by TEM-PCR were E. coli, E. faecalis, Klebsiella, Enterobacter and E. faecium. Enterococcus was detected more in females than males (61% vs. 19%).
- TEM-PCR detected more yeast and mixed flora than culture.
- In patients with catheters, TEM-PCR detected more organisms than culture.
- In those with diabetes, immunosuppressant, cancer or kidney stone there was more detection of organisms by TEM-PCR.
- In the asymptomatic group TEM-PCR was positive in 45% while culture only 12%.

Correlation of urine analysis results with culture and TEM-PCR were mixed.

More organisms were identified with both TEM-PCR when WBC were >50/HPF.
- There was no correlation of hematuria and organisms found by either method.

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Utilization of Target Enriched Multiplex-Polymerase chain reaction (TEM-PCR™) for diagnosis of urinary tract infection (UTI)

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