

Streamline urine collection and testing

With end-to-end BD[®] Urine Solutions



What if we could standardize urine sampling throughout your network?



Improve outcomes and treatment decisions for patients¹⁻⁵ >



Enhance diagnostic accuracy for clinicians^{7,8} >



Increase workflow efficiency at your hospital^{2,7,9,10} >



Align your practice with global urinalysis guidelines^{2,11-13} >



Maximize test potential for each specimen^{14,15} >



Help reduce improper prescriptions and reported CAUTIs^{14,16} >



Uncover opportunities to improve performance with PAQC and training >



Improve efficiency with pre-kitted collection options¹⁴ >

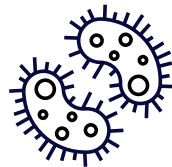
 Improper urine collection can impact your patients, clinicians and hospital



Contaminated urine samples may lead to erroneous results and impact treatment decisions



Urine tests are one of the three most commonly ordered diagnostic screening tests.¹
Improper collection and handling of urine specimens may impact urine sample accuracy.²
Each error may harm the patient:



E. coli typically doubles every 20 minutes in unpreserved urine,^{3,4} **highlighting the urgency** to preserve urine for accurate diagnostic results.



Unpreserved and improperly stored urine samples risk contamination and/or overgrowth, which can lead to **false positives and unnecessary treatment**¹



In one study, contaminated urine cultures led to **44.3%** of patients being **prescribed the wrong antibiotic**⁵



Unjustified ordering or improper collection of urine can lead to adverse health events such as **C. difficile infections**²



[See how BD® Urine Solutions can reduce urine sample contamination, helping to improve outcomes and treatment decisions for patients^{14,15}](#) >

Poor urine collection processes can impact clinical workflows



Improper urine collection and storage can disrupt workflow and increase turnaround time (TAT). Multiple studies show that urine specimen contamination, deterioration and overgrowth are widespread across laboratories in the U.S.⁶ Each subpar urine sample can put additional pressure on clinicians:



Unpreserved and improperly stored samples may require healthcare workers to spend **additional time on recollection, relabeling and retesting**



In general, lab TAT delayed Emergency Department (ED) treatments **more than 50% of the time**⁷



Urine leakage, spills and cleanup **disrupt laboratory workflow**

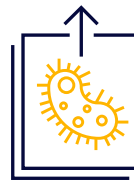


A 10-minute reduction in laboratory test TAT can lead to a **6-minute reduction in ED TAT**⁸

Variations in urine specimen management may also cost the hospital



Each inadvertent complication from an error in urine samples, such as a false positive catheter-associated urinary tract infection (CAUTI) or increased length of stay, is an additional expense to the hospital. Poor urine collection processes can also lead to operational and financial inefficiencies.



Contaminated urine specimens can lead to **over-reporting of CAUTI events**²



UTIs are one of the most common type of healthcare-associated infection (HAI) and may **impact reimbursement**^{2,9,10}



Additional tests and medications to treat a CAUTI can cost hospitals **\$876–8,398***⁹



[See how BD® Urine Solutions are enabling facilities to save ED costs and reduce reported CAUTI rates⁷ >](#)

Align your practice with the latest global urinalysis guidelines



Studies show that awareness and adherence to best practices in analyzing urine is a challenge.² Evidence-based guidelines issued by multiple national and global healthcare organizations recommend best practices for each stage of urine specimen management:



Urine samples must be processed by the lab within two hours of collection and kept refrigerated.

– World Health Organization¹¹



Urine samples must be immediately preserved using an appropriate chemical preservative.

– Clinical and Laboratory Standards Institute¹²



Adherence to specimen transport and storage must be documented for quality assurance.

– College of American Pathologists¹³



[See how BD® Urine Solutions can help you identify and fill practice gaps with Preanalytical Quality Checks \(PAQC\) >](#)

Maximize test potential from each urine specimen



High-quality, preserved samples can help you minimize preanalytical errors and unnecessary cultures due to bacterial contamination. With our closed urine systems, you can maximize diagnostic accuracy and optimize testing for each specimen:



BD Vacutainer® Urine Collection Kits, with a collection cup, evacuated tubes and a towelette, are a closed system designed to enable simple and consistent high quality collection¹⁴



BD Vacutainer® Urine Collection Cup provides an integrated transfer straw to ease transfer into evacuated tubes¹⁴



BD Vacutainer® C&S Preservative Tube helps you avoid unnecessary recollections due to contaminated samples by allowing sample preservation for up to 48 hours without refrigeration¹⁴



BD Vacutainer® Urinalysis Preservative Tube contains a proprietary formulation allowing sample preservation for up to 72 hours without refrigeration¹⁴

Non-preservative configuration tube also available

Impact at work:



More conclusive tests
vs open urine collection^{*15}



May enhance central processing efficiency
with standardized inbound tubes

*BD Vacutainer® Closed Urine Collection System along with standardized preanalytical steps showed a higher rate of conclusive tests compared to an open urine collection system.

Improve the quality of urine samples with a variety of solutions



Standardizing urine collection means fewer steps, less sample manipulation and reduced risk of contamination. Our preanalytical solutions enable you to standardize urine sampling, ensuring integrity regardless of where you collect the sample:



BD Vacutainer® Luer-Lok™ Access Device enables direct transfer from Foley catheters to BD Vacutainer® Urine Tubes¹⁴



BD Vacutainer® C&S and Urinalysis Tubes prevent bacterial overgrowth and maintain urine sample integrity for more accurate CAUTI reporting,¹⁴ and a No Additive tube is included for any additional testing

Impact at work:



Reduced exposure for patients and staff



Reported CAUTI rates reduced¹⁶

Assess your workflows and improve efficiency through standardization



Combine our Preanalytical Quality Checks (PAQC) with training and education to help improve diagnostic accuracy

BD Preanalytical Quality Checks (PAQC)

Evaluate your preanalytical processes to identify sources of variability, potential for errors and opportunities to improve workflow and quality of results.

Observe

Collect data and define baseline



- Collection process and instruction
- Specimen handling and labeling
- Transport time and temperature

Design

Analyze data and develop recommendations



- Solutions to address specific challenges
- Align with clinical best practices and industry guidelines
- Improve areas with the most significant need

Report

Share insights and discuss proposed solutions



- Collaborative reviews of findings
- Implementation support
- Full-service product support



Train and educate

Our team can provide process and product suggestions, demonstrate optimized use of our products and potentially develop new product offerings to address unmet clinical and diagnostic needs.



Best practices and industry guidelines



Product training and education programs



Comprehensive performance improvement plans



In addition to the various bulk device and tube options available, BD offers pre-kitted urine collection options designed to enhance efficiency and streamline sample collection and testing:



BD Vacutainer® Urine Complete Cup Kit (2-tube) includes: a BD Vacutainer® Urine Collection Cup with an integrated transfer device, a BD Vacutainer® Urinalysis Preservative Tube*, BD Vacutainer® C&S Preservative Tube and a towelette for cleansing prior to collection¹⁴

- BD Vacutainer® Urine Collection Cup with Integrated Transfer Device
- BD Vacutainer® Urine C&S Preservative Tube* (4.0 mL)
- BD Vacutainer® Urinalysis Preservative Tube (8.0 mL)
or BD Vacutainer® Urinalysis No Additive Tube (8.0 mL)
- Castile Soap Towelette for cleansing prior to collection¹⁴

*Both preservative and non-preservative tube options available



BD Vacutainer® Urine Complete Cup Kit (3-tube) includes: a BD Vacutainer® Urine Collection Cup with an integrated transfer device, a BD Vacutainer® Urinalysis Preservative Tube, BD Vacutainer® C&S Preservative Tube, a BD Vacutainer® No Additive (Z) Tube and a towelette for cleansing prior to collection¹⁴

- BD Vacutainer® Urine Collection Cup with Integrated Transfer Device
- BD Vacutainer® Urine C&S Preservative Tube (4.0 mL)
- BD Vacutainer® Urinalysis Preservative Tube (8.0 mL)
or BD Vacutainer® Urinalysis No Additive Tube (8.0 mL)
- BD Vacutainer® No Additive (Z) Tube (6.0 mL)
or BD Vacutainer® Urinalysis No Additive Tube (10.0 mL)
- Castile Soap Towelette for cleansing prior to collection¹⁴

Let's partner to advance urine sample management

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