

URO17TM

Developing the Most Sensitive and Specific Urine Test for Bladder Cancer

Bladder Cancer is the 6th most common cancer in the USA with 81,000 new cases annually.

There are currently over 6.7 million patients with hematuria who need an accurate and non-invasive diagnostic test.

- High recurrence rate of bladder cancer requires frequent monitoring.
- Low-grade tumors are more difficult to detect and make early detection difficult.
- Current urine tests for bladder cancer provide insufficient information, and are not considered reliable tools for monitoring or detecting new cases in patients with hematuria.
- There is a significant unmet clinical need for a non-invasive, highly sensitive, and specific test for bladder cancer.

Solution: URO17TM Urine Test

The most sensitive and specific urine test for bladder cancer

URO17[™] is an immunocytochemical test based on a novel biomarker. Published study reports **100% sensitivity and 96% specificity** for detecting bladder cancer from urine samples*.



The URO17[™] test enhances cytology and can complement cystoscopy for more efficient monitoring, an increased detection rate, and a better patient outcome

KDx Diagnostics Inc.

A Delaware Incorporation

www.kdxdiagnostics.com

URO17TM

Clinical Study

Introduction to the clinical study:

The aims of the current study were to explore the accuracy of Keratin 17 - a novel biomarker used in the URO17 test, as a potential diagnostic biomarker in bladder tissue specimens and to further determine if K17 can also detect urothelial cancer in urine cytology specimens.

JRO17 in ensitivit	ary of Clinica mmunocytoche ty and specificity tion for urotheli	mistry has a hi / than cytologi	Modern Pathology Modern Pathology Insp://doi.org/10.1084/41379.018-0177.5 Image: Control of the second se	
Test	Cytology ^a % (95%CI)	K17 ICC ^b % (95%CI)	BENIGN MALIGNAN	Sruthi Babu@ ¹² - Daniel C. Mockler ¹ - Lucia Roa-Peria ¹⁰ - Agnieszka Szygałowicz ¹⁰ - Nam W. Kim ³ - Sholei Jahanfard ³ - Shahram S. Gholami ³ - Richard Moffitt ¹⁴ - John P. Fitzgerald ³ - Luisa F. Escobar-Hoyos ^{1,6,2} - Kenneth R. Shroyer ¹
Sensitivity ^c	80 (61–91)	100 (90-100)		Received: 18 June 2018 / Revised: 18 October 2018 / Accepted: 26 October 2018 © United States & Canadian Academy of Pathology 2018
Specificity ^c	93 (82–98)	96 (89–99)		Abstract
PPV	87 (68–95)	91 (79–97)		There is a clinical need to identify novel biomarkers to improve diagnostic accuracy for the detection of urothelial tumors The current study aimed to evaluate keratin 17 (K17), an oncoprotein that drives cell cycle progression in cancers of multipl
NPV	89 (77–95)	100 (95-100)		anatomic sites, as a diagnostic biomarker of urothelial neoplasia in bladder biopsics and in urine cytology specimens. W evaluated K17 expression by immunohistochemistry in formalin-fixed, paraffin embedded tissues specimens of non-papillar invasive urothelial carcinoma (UC) (classical histological cases), hish grade papillary UC (PUC-LG), buo grade papillar
CL confidence	Interval, PPV positive predic	tive value NPV negative		Invasive irromenia carcinoma (UC) (classical nisological cases), nigi grade papiliary UC (PUC-LO), low grade papiliary UC (PUC-BG), nonliner, unobalial nacohoria of low malianant notantial (PUNI MD), and normal bloddar musoca /
		and value, M v llegative		*Babu et. al., Modern Pathology, 2019
predictive valu	IC			

URO17: The most sensitive and specific urine test for bladder cancer

	Cytology	NMP22	CX Bladder	UroVysion	Cystoscopy	URO17 TM
Sensitivity	56%	79%	82%	69%	98%	100%
Specificity	96%	84%	85%	78%	94%	96%

Sathianathen et al., 2018, Blick et al., 2011

The URO17 test is an immunocytochemical test that detects bladder cancer from urine samples.

Most Sensitive and Specific • 100% Sensitivity & 96% Specificity

Compatible • with all standard immunohistochemistry systems

Gold Standard Potential • testing suggests URO17™ test could improve accuracy of cytology and cystoscopy in monitoring recurrence cases, and detection of new cases in patients with hematuria



Collect urine sample and send to the lab using provided lab slip



Discuss the lab					
report with					
your patient					

URO17 is now available through selected reference laboratories. For more information please talk to your KDx Account Manager or visit our website.

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