



Cernostics, Inc. 235 William Pitt Way Pittsburgh, PA 15238 USA (412) 820 - 3050 www.cernostics.com

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BARRETT'S ESOPHAGUS PATIENT REPORT

Patient Name: Doe, James Medical Record #: 909993 **Cernostics ID:** 20200817003A Date of Birth: 5/20/1970 Sex: Male Specimen #: S20-90993

> **Esophageal Pinch** Biopsy (Part A)

Other Comments/Reason for Ordering Test:

Specimen Type:

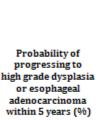
8/16/2020 **Date Biopsy Collected:** Date Received: 8/17/2020 Ordering Institution:

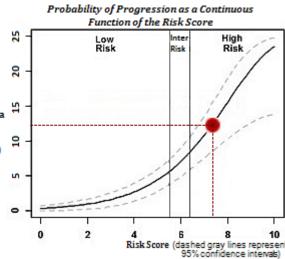
Ordering Physician: Dr. Edward Smith **Submitting Pathologist:** Dr. Evelyn Johnson

Number of Levels/Blocks Submitted: Number of Levels/Blocks Tested:

PATIENT RESULTS: TISSUECYPHER® RISK SCORE AND RISK CLASS







Clinical Experience in Barrett's Esophagus:

In a multi-institutional nested case-control validation study involving 366 patients with Barrett's esophagus from four institutions (1), patients with a risk score of 7.4 had a 12% (95% C.I. 8, 15) risk of progression to high grade dysplasia or esophageal adenocarcinoma within 5 years.

Comments:

N/A

TISSUECYPHER® BARRETT'S ESOPHAGUS ASSAY DESCRIPTION

The TissueCypher® Barrett's Esophagus Assay uses quantitative image analysis to measure the expression of 9 biomarkers and tissue morphology in whole slide digital images of labeled Barrett's esophagus biopsies. A risk score for progression to high grade dysplasia or esophageal adenocarcinoma is generated from the image analysis results. The risk score ranges from 0-10, with 0 indicating lowest risk and 10 indicating highest risk. The risk score is independent of clinical variables, including pathologic diagnosis.

The TissueCypher® Barrett's Esophagus Assay was developed and its performance characteristics determined by Cernostics, Inc. The laboratory is regulated under the Clinical Laboratory Improvement Amendments of 1988 (CLIA) as qualified to perform high-complexity clinical testing. This test is used for clinical purposes and should not be regarded as investigational or for research. This test has not been reviewed by the Food

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Laboratory Director: Marvin A. Lessig, D.O., FCAP Email: customer.service@cernostics.com

CLIA#: 39D2110302 Form#: TCBEAv5-0720





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and Drug Administration (FDA). The results provided here are adjunctive to the ordering physician's workup for patients with Barrett's esophagus. The reported 5 year probability of progression was adjusted based on estimated prevalence as described in the cited study (1), however, the prevalence of progression of Barrett's Esophagus may vary between clinical institutions.

References

- 1. Critchley-Thorne et al. A Tissue Systems Pathology Assay for High-Risk Barrett's Esophagus. Cancer Epidemiol Biomarkers Prev 2016;25(6):958-68.
- 2. Prichard et al. TissueCypher(™): A systems biology approach to anatomic pathology. J Pathol Inform. 2015; 31;6:48.
- 3. Critchley-Thorne et al. A Tissue Systems Pathology Test Detects Abnormalities Associated with Prevalent High-Grade Dysplasia and Esophageal Cancer in Barrett's Esophagus. Cancer Epidemiol Biomarkers Prev. 2017;26(2):240-248.

Based on my review, the TissueCypher® Barrett's Esophagus Assay batch controls passed quality assessment and the observed biomarker expression patterns are consistent with the results described herein.

Reviewer: Date Reported:

9/1/2020

X Marvin Lessig, DO, FCAP

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