Bibliography

TissueCypher
Barrett's Esophagus

Peer-reviewed literature

PUBLICATION	YEAR	AUTHOR	TITLE
Clinical and Translational Gastroenterology	2023	Davison JM, Goldblum JR, Duits LC, Khoshiwal AM, Bergman JJ, Falk GW, Diehl DL, Khara HS, Smolko C, Arora M, Siegel JJ, Critchley-Thorne RJ, Thota PN	A Tissue Systems Pathology Test Outperforms the Standard of Care Variables in Predicting Progression in Patients with Barrett's Esophagus
Gastroenterology	2023	Khoshiwal AM, Frei NF, Pouw RE, Barrett's SURF LGD Study Pathologists Consortium, Smolko C, Arora M, Siegel JJ, Duits LC, Critchley-Thorne RJ, Bergman JJ	A Tissue Systems Pathology Test Outperforms Pathology Review in Risk Stratifying Patients with Low-Grade Dysplasia
American Journal of Gastroenterology	2023	Duits LC, Khoshiwal, AM, Frei NF, Pouw, RE, Barrett's SURF LGD Study Pathologists Consortium; Smolko C, Arora M, Siegel JJ, Critchley-Thorne RJ, Bergman JJ	An automated tissue systems pathology test can standardize the management and improve health outcomes for patients with Barrett's esophagus
Journal of Precision Medicine	2022	Munroe C, Hall M, Critchley-Thorne RJ	Spatialomics delivered to the clinic for improved health outcomes in Barrett's esophagus
Clinical Gastroenterology and Hepatology	2022	Iyer PG, Codipilly DC, Chandar AK, Agarwal S, Wang KK, Leggett CL, Latuche LR, Schulte PJ	Prediction of progression in Barrett's esophagus using a tissue systems pathology test: a pooled analysis of international multicenter studies
Endoscopy International Open	2021	Diehl DL, Khara HS, Akhtar N, Critchley-Thorne RJ	The TissueCypher® Barrett's esophagus assay impacts clinical decisions in the management of patients with Barrett's esophagus
American Journal of Gastroenterology	2020	Frei NF, Khoshiwal AM, Konte K, Bossart EA, Stebbins K, Zhang Y, Pouw RE, ten Kate FJW, Seldenrijk CA, Meijer SL, Critchley-Thorne RJ, Bergman JJ	A tissue systems pathology test objectively risk stratifies Barrett's esophagus patients with low-grade dysplasia
Clinical and Translational Gastroenterology	2020	Frei NF, Konte K, Bossart EA, Stebbins K, Zhang Y, Pouw RE, Critchley-Thorne RJ, Bergman JJ	Independent validation of a tissue systems pathology assay to predict future progression in non-dysplastic Barrett's esophagus: a spatial-temporal analysis
American Journal of Gastroenterology	2020	Davison JM, Goldblum J, Grewal US, McGrath K, Fasanella K, Deitrick C, DeWard AD, Bossart EA, Hayward SL, Zhang Y, Critchley-Thorne RJ, Thota PN	Independent blinded validation of a tissue systems pathology test to predict progression in patients with Barrett's esophagus
ClinicoEconomics and Outcomes Research	2019	Hao J, Critchley-Thorne RJ, Diehl DL, Snyder SR	A cost-effectiveness analysis of an adenocarcinoma risk prediction multi-biomarker assay for patients with Barrett's esophagus
Methods in Molecular Biology	2018	DeWard AD, Critchley-Thorne RJ	Systems biology approaches in cancer pathology
Translational Cancer Research	2017	DeWard AD, Critchley-Thorne RJ	Signatures of field cancerization: a step towards earlier detection of esophageal adenocarcinoma
Cancer Epidemiology, Biomarkers & Prevention	2017	Critchley-Thorne RJ, Davison JM, Prichard JW, Reese LM, Zhang Y, Repa K, Li J, Diehl DL, Jhala NC, Ginsberg GG, DeMarshall M, Foxwell T, Jobe BA, Zaidi AH, Duits LC, Bergman JJ, Rustgi A, Falk GW	A tissue systems pathology test detects abnormalities associated with prevalent high-grade dysplasia and esophageal cancer in Barrett's esophagus

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Medical Laboratory Observer	2016	DeWard AD, Critchley-Thorne RJ	Individualized Risk Prediction in Barrett's Esophagus
Cancer Epidemiology, Biomarkers & Prevention	2016	Critchley-Thorne RJ, Duits LC, Prichard JW, Davison JM, Jobe BA, Campbell BB, Zhang Y, Repa KA, Reese LM, Li J, Diehl DL, Jhala NC, Ginsberg G, DeMarshall M, Foxwell T, Zaidi AH, Lansing Taylor D, Rustgi AK, Bergman JJ, Falk GW	A tissue systems pathology assay for high-risk Barrett's esophagus
Journal of Pathology Informatics	2015	Prichard JW, Davison JM, Campbell BB, Repa KA, Reese LM, Nguyen XM, Li J, Foxwell T, Lansing Taylor D, Critchley-Thorne RJ	TissueCypher: A systems biology approach to anatomic pathology
Journal of Pathology Informatics	2011	Nederlof M, Watanabe S, Burnip B, Lansing Taylor D, Critchley-Thorne RJ	High-throughput profiling of tissue and tissue model microarrays: combined transmitted light and 3-color fluorescence digital pathology

Podium and poster presentations

PUBLICATION	YEAR	AUTHOR	TITLE
ISDE World Congress for Esophageal Diseases	2023	Villa NA, Ordonez-Castellanos M, Yodice MA, Smolko C, Arora M, Critchley-Thorne RJ, Khara HS, Diehl D	**PODIUM PRESENTATION AT ISDE 2023, TORONTO** (303) The tissue systems pathology-9 test provides clinically-impactful risk stratification in patients with Barrett's esophagus: clinical experience in a multicenter cohort
Gastroenterology	2023	Villa NA, Ordonez-Castellanos M, Yodice MA, Smolko C, Hall M, Critchley-Thorne RJ, Khara HS, Diehl D	**POSTER PRESENTATION AT DDW 2023, CHICAGO** (Tu1272) A tissue systems pathology test objectively risk-stratifies patients with Barrett's esophagus: results from a multicenter U.S. clinical experience
Gastroenterology	2023	Duits LC, Khoshiwal AM, Davison JM, Thota PN, Goldblum JR, Diehl DL, Khara HS, Falk GW, Smolko C, Arora M, Siegel JJ, Critchley-Thorne RJ, Bergman JJ	**POSTER PRESENTATION AT DDW 2023, CHICAGO** (Tu1271) A tissue systems pathology test enables standardized, risk-aligned management of patients with Barrett's esophagus
Gastroenterology	2023	Khoshiwal AM, Duits LC, Pouw RE, Smolko C, Meenakshi A, Siegel JJ, Critchley-Thorne RJ, Bergman JJ	**POSTER PRESENTATION AT DDW 2023, CHICAGO** (Tu1270) A tissue systems pathology test has significant clinical utility to standardize management leading to improved health outcomes for Barrett's esophagus patients with low-grade dysplasia
Gastrointestinal Endoscopy	2023	Wisniowski P, Putnam L, Hall M, Smolko C, Critchley-Thorne RJ, Lipham J	**PODIUM PRESENTATION AT DDW 2023, CHICAGO** (643) A tissue systems pathology test enables risk-aligned management of patients with non-dysplastic Barrett's esophagus: a case series at an expert foregut surgery center

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Gastroenterology	2023	Davison JM, Goldblum JR, Duits LC, Khoshiwal AM, Bergman JJ, Falk GW, Diehl DL, Khara HS, Smolko C, Arora M, Siegel JJ, Critchley-Thorne RJ, Thota PN	**PODIUM PRESENTATION AT DDW 2023, CHICAGO** (222) A tissue systems pathology test outperforms standard clinicopathic variables in predicting progression in patients with Barrett's esophagus
Gastroenterology	2022	Khoshiwal AM, Frei NF, Duits LC, Pouw RE, Bossart E, Wilhelm M, Critchley-Thorne RJ, Bergman JJ	**PODIUM PRESENTATION AT DDW 2022, SAN DIEGO** (695) An objective, fully automated Barrett's risk prediction assay outperforms most pathologists in risk stratifying Barrett's esophagus with low-grade dysplasia
Endoscopy	2022	Khoshiwal AM, Frei NF, Duits LC, Pouw RE, Bossart E, Wilhelm M, Critchley-Thorne RJ, Bergman JJ	**PODIUM PRESENTATION AT ESGE 2022, PRAGUE** (OP079) An objective, fully automated Barrett's risk prediction assay outperforms most pathologists in risk stratifying Barrett's esophagus with low-grade dysplasia
Gastroenterology	2021	Frei NF, Khoshiwal AM, Konte, K, Pouw RE, Ten Kate F, Seldenrijk CA, Offerhaus J, Goldblum JR, Davison JM, Bossar EA, Critchley-Thorne RJ, Bergman JJ	**PODIUM PRESENTATION AT DDW 2021** (43) TissueCypher objectively risk stratifies Barrett's esophagus patients with low-grade dysplasia
United European Gastroenterology Journal	2020	Frei N, Khoshiwal A, Konté K, Bossart EA, Stebbins K, Zhang Y, Pouw RE, Ten Kate FJW, Seldenrijk CA, Meijer SL, Critchley-Thorne RJ, Bergman JJ	**PODIUM PRESENTATION AT UEG 2020 ANNUAL MEETING** (OP017) Independent validation of TissueCypher to predict progression in community-based Barrett's esophagus with low-grade dysplasia: analysis in a completed prospective study
Gastroenterology	2020	Frei NF, Konte K, Bossart EA, Khoshiwal A, Zhang Y, Stebbins K, Critchley-Thorne RJ, Pouw RW, Bergman JJ	**DDW 2020 ANNUAL MEETING ABSTRACT** (1085) Independent validation of TissueCypher to predict progression in community-based Barrett's esophagus with low-grade dysplasia: analysis in a completed prospective study
Gastroenterology	2020	Odze R, Davison JM, Goldblum JR, Thota PN, Grewal US, Deitrick C, McGrath K, Fasanella K, Zhang Y, Critchley-Thorne RJ	**DDW 2020 ANNUAL MEETING ABSTRACT** (Sa1203) Prediction of neoplastic progression in Barrett's esophagus by pathologic assessment of degree of crypt atypia and by TissueCypher
Gastroenterology	2020	Frei F, Konte K, Bossart EA, Khoshiwal AM, Zhang Y, Stebbins K, Critchley-Thorne RJ, Pouw RE, Bergman JJ	**DDW 2020 ANNUAL MEETING ABSTRACT** (Sa1189) Independent validation of TissueCypher to predict future progression in non-dysplastic Barrett's esophagus: a spatialtemporal analysis
American Journal of Gastroenterology	2019	Frei NF, Konte K, Bossart EA, Zhang Y, Critchley-Thorne RJ, Pouw RE, Bergman JJ	**POSTER PRESENTATION AT ACG 2019 ANNUAL MEETING, SAN ANTONIO** (371) Evaluation of additional spatial and temporal information increases the Overall Accuracy of an Objective Risk Prediction Assay in Patients with Non-Dysplastic Barrett's Esophagus

PUBLICATION	YEAR	AUTHOR	TITLE
American Journal of Gastroenterology	2019	Frei NF, Konte K, Bossart EA, Zhang Y, Critchley-Thorne RJ, Pouw RE, Bergman JJ	**POSTER PRESENTATION AT ACG 2019 ANNUAL MEETING, SAN ANTONIO** (372) An automated, quantitative multiplex immunofluorescence assay accurately risk stratifies Barrett's esophagus patients with a community-based diagnosis of low-grade dysplasia at a rate comparable to expert pathologists
United European Gastroenterology Journal	2019	Frei NF, Konte K, Bossart EA, Zhang Y, Critchley-Thorne RJ, Pouw RE, Bergman JJ	**POSTER PRESENTATION AT UEG WEEK 2019, BARCELONA** (P1990) An automated, quantitative multiplex immunofluorescence assay accurately risk stratifies Barrett's esophagus patients with a community-based diagnosis of low-grade dysplasia at a rate comparable to expert pathologists
Gastroenterology	2019	Davison JM, Goldblum J, Grewal US, McGrath K, Deitrick C, DeWard AD, Bossart EA, Hayward SL, Zhang Y, Critchley-Thorne RJ, Thota PN	**PODIUM PRESENTATION AT DDW 2019, SAN DIEGO** (1068) Independent validation of a tissue systems pathology test to predict progression in Barrett's esophagus patients
Gastrointestinal Endoscopy	2018	Diehl DL, Khara HS, Akhtar N, Critchley-Thorne RJ	**POSTER PRESENTATION AT DDW 2018, WASHINGTON DC** (Su1109) Clinical experience with a multiplexed immunofluorescence tissue biomarker assay (TissueCypher BE) in the management of Barrett's esophagus: a single center experience
Gastroenterology	2016	Critchley-Thorne RJ, Duits LC, Prichard JW, Davison JM, Jobe BA, Campbell B, Zhang Y, Repa K, Reese L, Li J, Diehl DL, Jhala NC, Ginsberg GG, DeMarshall M, Foxwell T, Zaidi AH, Lansing Taylor D, Rustgi AK, Bergman JJ, Falk GW	**PODIUM PRESENTATION AT DDW 2016, SAN DIEGO** (301) A novel tissue systems pathology test predicts progression in Barrett's esophagus patients
Gastroenterology	2016	Critchley-Thorne RJ, Davison JM, Prichard JW, Li J, Diehl DL, Reese L, Zhang Y, Jhala NC, Ginsberg GG, DeMarshall M, Foxwell T, Jobe BA, Zaidi AH, Duits LC, Bergman JJ, Rusgti AK, Falk GW	**POSTER PRESENTATION AT DDW 2016, SAN DIEGO** (Sa1257) A tissue systems pathology test detects a field effect associated with high-grade dysplasia and esophageal cancer in Barrett's esophagus patients
Value in Health	2016	Hao J, Snyder SR, Pitcavage JM, Critchley-Thorne RJ	**PODIUM PRESENTATION AT ISPOR 2016, WASHINGTON DC** (CN4) A cost-effectiveness analysis of a test that predicts risk of malignant progression in Barrett's esophagus
Gastroenterology	2016	Hao J, Snyder SR, Pitcavage JM, Critchley-Thorne RJ	**POSTER PRESENTATION AT DDW 2016, SAN DIEGO** (Sa1261) A cost-effectiveness analysis of a cancer risk prediction test for patients with Barrett's esophagus
Modern Pathology	2015	Davison JM, Prichard J, Campbell B, Repa K, Reese L, Nguyen XM, Foxwell T, Li J, Diehl D, Barley M, Falk G, Jhala N, DeMarshall M, Bergman J, Duits L, Jobe B, Zaidi A, Zhang Y, Critchley-Thorne RJ	**POSTER PRESENTATION AT USCAP 2015, BOSTON** (611) Quantitative Multiplexed Biomarker and Morphology Analysis to Aid Diagnosis of Dysplasia in Barrett's Esophagus

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