PATHOLOGY GRAND ROUNDS

Matija Snuderl, MD
Associate Professor of Pathology
New York University

“Developing Clinical Machine Learning and AI in Molecular Diagnostics and Clinical Management of Cancer”

Thursday, March 19, 2020
12:30 p.m.
Fitkin Amphitheater – LMP 1094

Host: Declan McGuone, MD

There is no corporate or grant support for this activity. This course will fulfill the licensure requirement set forth by the State of Connecticut.

ACCREDITATION
The Yale School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

TARGET AUDIENCE
Attending physicians, researchers, house staff, fellows, residents, medical students, nurses.

NEEDS ASSESSMENT
Machine learning and AI are transforming medicine and pathology. Current pathology education in AI is lacking, yet our research shows that AI has a potential to decrease the number of misdiagnosed cases. Furthermore, AI in medicine can transform our ability to deliver molecular diagnostics to underserved areas. The talk will describe the advances in machine learning and AI in integrating advanced molecular diagnostics and rapid frozen section diagnosis in clinical practice.

LEARNING OBJECTIVES
At the conclusion of this activity, participants will be able to:
• Describe the role of whole genome DNA methylation profiling and machine learning in pathology;
• Recognize the ability of AI in processing H&E slides for diagnosis of mutations;
• Understand the clinical improvement provided by Rapid Stimulated Raman Histology and AI in frozen section diagnosis.

DESIGNATION STATEMENT
The Yale School of Medicine designates this live activity for 1 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

FACULTY DISCLOSURES
Speaker Name: Matija Snuderl, MD - Illumina, Inc.
Course Directors: Manju Prasad, MD - NONE
Kurt Schalper, MD, PhD - NONE
Gopal Pallavi, MD, PhD - NONE

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