

Fifth Global Summit on
PRECISION DIAGNOSIS AND TREATMENT OF PROSTATE CANCER

October 1-3, 2020
Boston, MA

PROGRAM DRAFT – 1.28.20

THURSDAY, OCTOBER 1, 2020

8:00 am WELCOME AND INTRODUCTION

Faina Shtern, MD, President and CEO, AdMeTech Foundation

8:15 am SESSION I: PATIENT POPULATION PRIOR TO DIAGNOSIS OF PROSTATE CANCER: SCREENING AND CLINICAL EVALUATION OF MEN WITH CLINICAL SUSPICION

Moderators:

Richard Babayan, MD, Professor, Department of Urology, Boston University School of Medicine; and Chief of Urology, Boston Medical Center, Past President, American Urological Association

Jim C. Hu, MD, MPH, Ronald P. Lynch Professor of Urologic Oncology and Professor of Urology, Weill Cornell Medical College, Cornell University; and Attending Urologist, New York-Presbyterian Hospital

Clare Tempany, MD, Ferenc Jolesz, MD Professor of Radiology, Harvard Medical School; Vice Chair, Research Radiology, Brigham and Women's Hospital; Director, National Center for Image-Guided Therapy; and Chair, Joint American College of Radiology, AdMeTech Foundation and European Society of Urogenital Radiology Steering Committee on PI-RADS Standardization

Stephen Zappala, Clinical Associate, Department of Urology, Massachusetts General Hospital, Harvard Medical School

8:15 am *State of the Art in Prostate Cancer Screening and Fluid-Based Molecular Diagnostics*

Yesterday, Today and Tomorrow of Screening: Sigrid Carlsson, MD, PHD, MPH, Assistant Attending Epidemiologist, Departments of Surgery (Urology Service) and Epidemiology and Biostatistics, Memorial Sloan Kettering Cancer Center and Associate Professor of Experimental Urology, Sahlgrenska Academy, Gothenburg University, Sweden

8:27 am Q & A

8:30 am *Keynote Address: Liquid Diagnostics:* David Crawford, MD, Clinical Professor of Urology, University of California San Diego; Chairman, Prostate Conditions Education Council; and Editor in Chief, Grand Rounds in Urology

8:42 am Q & A

8:45 am *Industry and Academic Panel: Comments and Q & A*

9:30 am *Current and Emerging Imaging Tools for Improving Risk Assessment and Selection of Patients for Biopsy*

9:30 am *Real-Time High-Resolution Micro-Ultrasound:* Sangeet Ghai, MD, Associate Professor, Department of Medical Imaging, University of Toronto, Canada

9:42 am Q & A

9:45 am COFFEE BREAK, EXHIBIT TOURS, POSTER SESSIONS

10:15 am *Multi-Parametric (mp) and Bi-Parametric (bp) Magnetic Resonance Imaging*

10:15 am *Recent Advancements in PI-RADS: Risk Assessment to Improve Patient Selection for Biopsy:* Clare Tempany, MD

10:27 am Q & A

10:30 am *American College of Radiology Initiatives in Image Quality & Prostate Cancer Designation Program:* Jeffrey Weinreb, MD, Professor and Vice Chair for Strategic Planning and Innovation, Department of Diagnostic Radiology and Biomedical Imaging, Yale School of Medicine

10:42 am Q & A

10:45 am **MRI-targeted Biopsy of the Prostate**

10:45 am *Optimizing Patient Selection and Technique:* Fergus Coakley, MD, Professor and Chair of Radiology, School of Medicine, Oregon Health and Science University

10:57 am Q & A

11:00 am *Clinical Experience and Impact:* Mukesh Harisinghani, MD, Director of Abdominal MRI, Massachusetts General Hospital and Professor of Radiology, Harvard Medical School

11:12 am Q & A

11:15 am *NCCN Guidelines for Early Detection of Prostate Cancer 2020:* Preston Sprenkle, MD, Assistant Professor of Surgery, Yale University School of Medicine; and Member, NCCN Prostate Cancer Early Detection Panel

11:27 am Q & A

11:30 am *Integrated Multi-Modality Diagnostic Evaluation:* Sanoj Punnen, MD, Co-Chair of Genitourinary Site Disease Group, Associate Professor, Department of Urology, University of Miami, Miller School of Medicine

11:42 am Q & A

11:45 am **Industry and Academic Panel: Comments and Q & A**

1:00 pm – 2:30 pm **LUNCH BREAK, REFRESHMENTS, EXHIBIT TOURS AND POSTER SESSION**

2:30 PM **SESSION II. CLINICAL EVALUATION AND MANAGEMENT OF MEN WITH LOCALIZED AND RECURRENT PROSTATE CANCER**

Moderators:

Masoom Haider, MD, Professor of Radiology, University of Toronto; Senior Clinician Scientist, Lunenfeld Tanenbaum Research Institute; Director, Machine Learning and Radiomics Lab; and Director, Sinai Health System Research MRI, Canada

Alan Pollack, MD, PhD, Professor and Chairman of Radiation Oncology, University of Miami Miller School of Medicine; Interim Deputy Director, Sylvester Comprehensive Care Center; and Service Chief, Radiation Oncology, Jackson Memorial Hospital (Invited)

Grannum Sant, MD, FRCS, FACS, Professor and Former Chair of Urology, Tufts University School of Medicine; Former Head, Oncology/Urology Medical Affairs, Sanofi, and Rare Genetic Diseases, Genzyme

2:30 pm **Genetic Cancer Profiling**

2:30 pm *Clinical Perspective:* Eric Klein, MD, Chairman, Glickman Urological and Kidney Institute, Cleveland Clinic (Invited)

2:42 pm Q & A

2:45 pm *Epidemiologic Perspective:* Jennifer Rider, ScD, MPH, Assistant Professor, Department of Epidemiology, Boston University School of Public Health

2:57 pm Q & A

3:00 pm *Precision Diagnostics and its Role in Reducing Prostate Cancer Disparities:* Brandon Mahal, MD, Assistant Professor, Radiation Oncology, University of Miami Miller School of Medicine Assistant Director of Community Outreach and Engagement, Sylvester Comprehensive Cancer Center

3:12 pm Q & A

3:15 pm **Industry and Academic Panel: Comments and Q & A**

3:45 pm **COFFEE BREAK, EXHIBIT TOURS, POSTER SESSION**

4:15 pm **In Vivo Imaging**

4:15 pm *Current Clinical Utility of MRI and Multi-Modality Imaging*

4:15 pm *Radiology Perspective: Masoom Haider, MD*

4:27 pm Q & A

4:30 pm *Urology Perspective: Mohummad Minhaj Siddiqui, MD, Associate Professor of Surgery, Director of Urologic Oncology and Robotic Surgery, University of Maryland Medical System, and Chief of Urology, Baltimore VA Medical Center; and Participant, US Vice President Joseph Biden's Cancer Moonshot Program*

4:42 pm Q & A

4:45 pm *Targeted MRI Biopsy and Overtreatment: Andrew Vickers, PhD, Attending Research Methodologist, Memorial Sloan-Kettering Cancer Center*

4:57 pm Q & A

5:00 pm **Non-Invasive Molecular Imaging and its Impact on Management of the Localized Disease: Initial Diagnosis and Suspected Recurrence**

5:00 pm *Nuclear Medicine Perspective: Andrei H. Iagaru, MD, FACNM, Professor of Radiology - Nuclear Medicine Chief, Division of Nuclear Medicine and Molecular Imaging Co-Director, PET-MRI Research Program Stanford University*

5:12 pm Q & A

5:15 pm *Emerging Role of PSMA Imaging: Steven Rowe, MD, PhD, Assistant Professor of Radiology, Johns Hopkins University School of Medicine*

5:27 pm Q & A

5:30 pm *Urologic Perspective: Gerald L. Andriole, MD, Robert Royce Distinguished Professor, Chief of Urologic Surgery, and Vice-Chair, Department of Surgery, Washington University School of Medicine, Barnes-Jewish Hospital, Siteman Cancer Center; and Member, National Comprehensive Cancer Network (NCCN)'s Cancer Early Detection Panel*

5:42 pm Q & A

5:45 pm **Industry and Academic Panel: Comments and Q & A**

6:30 pm **WELCOME DINNER RECEPTION, EXHIBIT TOURS, POSTER SESSION**

FRIDAY, OCTOBER 2, 2020

8:00 AM **SESSION II: CLINICAL EVALUATION AND MANAGEMENT OF MEN WITH LOCALIZED AND RECURRENT PROSTATE CANCER (Continued)**

Moderators:

Jason Efstathiou, MD, D. Phil., Director, Genitourinary Service, Department of Radiation Oncology; and Clinical Co-Director, The Claire and John Bertucci Center for Genitourinary Cancers Multidisciplinary Clinic and Professor of Radiation Oncology, Massachusetts General Hospital, Harvard Medical School (Invited)

Andrei H. Iagaru, MD, FACNM

Kelvin A. Moses, MD, PhD, Associate Professor of Urology and Director of Comprehensive Prostate Cancer Clinic, Vanderbilt University Medical Center, and Member, NCCN Prostate Cancer Early Detection Guidelines Panel

8:00 am ***Controversies in the Radiotherapeutic Management of Clinically Localized Prostate Cancer:*** Mack Roach, MD, Professor of Radiation Oncology and Urology, UCSF; and Member, NCCN Prostate Cancer Treatment Panel

8:12 am Q & A

8:15 am ***Precision Diagnosis: Emerging and Future Impact on Treatment Selection and Monitoring***

8:15 am *Active Surveillance:* Sanoj Punnen, MD

8:27 am Q & A

8:30 am *Image-Targeted, Minimally Invasive Treatment:* Clare Tempany, MD

8:42 am Q & A

8:45 am *Radiation and Surgical Treatment*

8:45 am *Radiation Oncology:* Alan Pollack, MD, PhD (Invited)

8:57 am Q & A

9:00 am *Urology:* Adam Feldman, MD, MPH, Assistant Professor of Surgery and Director of Combined Harvard Urology Oncology Fellowship, Massachusetts General Hospital, Harvard Medical School (Invited)

9:12 am Q & A

9:15 am ***Industry and Academic Panel: Comments and Q & A***

10:00 am **COFFEE BREAK, EXHIBIT TOURS, POSTER SESSION**

10:30 am ***Pathologic Assessment***

10:30 am *Anatomic Pathology Perspective:* Thomas Wheeler, MD, Senior Vice Chair for Faculty Group Pathology Practice, Professor and W.L. Moody, Jr. Endowed Chair, Department of Pathology & Immunology, Baylor College of Medicine

10:42 am Q & A

10:45 am *Molecular Pathology Perspective:* Angelo DeMarzo, MD, PhD, Associate Director of Cancer Research Pathology, Sidney Kimmel Comprehensive Cancer Center and Professor of Pathology, Johns Hopkins Medicine (invited)

10:57 am Q & A

11:00 am ***Industry and Clinical Panel on Diagnostic Evaluation of Men with Localized and Recurrent Prostate Cancer and its Impact on Treatment Design and Monitoring***

12:00 pm – 1:30 pm **LUNCH BREAK, REFRESHMENTS, EXHIBIT TOURS AND POSTER SESSION**

1:30 pm **SESSION III: PRECISION DIAGNOSTICS AND EMERGING ROLE OF IMAGE-TARGETED, MINIMALLY INVASIVE TREATMENT**

Moderators:

Mitchell Sokoloff, MD, Professor and Chair of Urology, University of Massachusetts School of Medicine

Sadhna Verma, MD, Professor of Radiology, University of Cincinnati College of Medicine (Invited)

David Albala, MD, Chief of Urology, Crouse Hospital in Syracuse, New York

1:30 pm ***Multimodality Diagnostics for Improved Target Definition, Patient Selection, Monitoring & Outcomes***

- 1:30 pm** *Overview:* Jurgen Fütterer, MD, PhD, Interventional Radiologist, Professor of Image-guided Interventional Oncology, RadboudUMC Nijmegen, The Netherlands; and Professor, Robotics and Mechanics Group, University of Twente, the Netherlands
- 1:42 pm** Q & A
- 1:45 pm** *Current and Emerging Role of Radiogenomics in Risk Assessment:* John Feller, MD, Chief Medical Officer, HALO Dx; and Assistant Clinical Professor of Radiology, Loma Linda University School of Medicine
- 1:57 pm** Q & A
- 2:00 pm** *Follow-Up of Focal Cryoablation and Novel Pulse Sequences to Characterize the Treatment Zone:* Daniel Margolis, MD, Associate Professor of Radiology and Director, Prostate MRI and Abdominal Imaging
- 2:12 pm** Q & A
- 2:15 pm** *Novel Emerging Approaches to Focal Treatment:* Art Rastinehad, DO, FACOS, Associate Professor of Urology and Radiology, and Director, Focal Therapy and Interventional Urology Program, Icahn School of Medicine at Mount Sinai Health System (Invited)
- 2:27 pm** Q & A
- 2:30 pm** *Image-Guided Minimally-Invasive Whole Gland Treatment:* Steven Raman, MD, Clinical Professor of Radiology and Director of Prostate MR Imaging and Interventions, David Geffen School of Medicine, UCLA
- 2:42 pm** Q & A
- 2:45 pm** **COFFEE BREAK, EXHIBIT TOURS, POSTER SESSION**
- 3:15 pm** ***Clinical Role of Focal Treatment vs. Active Surveillance and Standard Rx***
- 3:15 pm** *Radiology Perspective:* Aytekin Oto, MD, MBA, Interim Chairman, Professor of Radiology and Surgery at Department of Radiology at the University of Chicago
- 3:27 pm** Q & A
- 3:30 pm** *Urology Perspective:* Jim C. Hu, MD, MPH
- 3:42 pm** Q & A
- 3:45 pm** *Radiation Oncology Perspective:* Daniel Song, MD, Co-Director, Prostate Cancer Multidisciplinary Clinic and Associate Professor of Radiation Oncology and Molecular Radiation Sciences, Urology and Oncology, Johns Hopkins University School of Medicine
- 3:57 pm** Q & A
- 4:00 pm** ***Industry Panel: Comments and Q & A***
- 4:30 pm** ***Academic Panel: Comments and Q & A***
- 6:00 pm** **DINNER RECEPTION, EXHIBIT TOURS, AND POSTER SESSION**
- SATURDAY, OCTOBER 3, 2020**
- 8:00 AM** **SESSION IV: POPULATION OF MEN WITH ADVANCED PROSTATE CANCER**
- Moderators:**
- Michael J. Morris, MD, Section Head, Prostate Cancer, Genitourinary Oncology Service
- Jason Efstathiou, MD, D. Phil.
- 8:00 am** ***Overview of Treatment for Advanced Prostate Cancer, including Oligometastatic and Systemic Disease***

8:00 am *Precision Oncology of Prostate Cancer*: Michael Morris, MD

8:12 am Q & A

8:15 am *Global Prostate Cancer Issues*: Mark Garnick, MD, Director of Cancer Community Services, Network Development, BIDMC, Gorman Brothers Clinical Professor of Medicine at Harvard Medical School (HMS), Special Advisor, Oncologic Drugs Advisory Committee of the FDA

8:27 am Q & A

8:30 am *Oligometastatic Disease*: Jason Efstathiou, MD, D. Phil.

8:42 am Q & A

8:45 am *Systemic Disease and Circulating Tumors*: David Nanus, MD, Mark W. Pasmantier Professor of Hematology and Medical Oncology in Medicine, and Director, Genitourinary Cancer, New York-Presbyterian Hospital – Weill Cornell Medicine Healthcare System Cancer Program, and Associate Director, Clinical Services, Meyer Cancer Center

8:57 am Q & A

9:00 am *Germline Genome and Prostate Cancer Evolution and Aggressivity*: Paul Boutros, MD, PhD, Director of Cancer Data Science, Jonsson Comprehensive Cancer Center; Associate Director of Cancer Informatics at the Institute for Precision Health; and Professor of Urology and Human Genetics, UCLA

9:12 am Q & A

9:15 am ***Industry and Academic Panel: Comments and Q & A***

10:15 am **COFFEE BREAK, EXHIBIT TOURS, POSTER SESSION**

10:45 am ***Molecular and Multi-Modality Imaging***

10:45 am *Theranostics of Prostate Cancer*

10:45 am *Current State of the Art*: Andrei Iagaru, MD

10:57 am Q & A

11:00 am *Emerging Trends and Future Directions*: Wolfgang Weber, MD, Professor and Chair, Department of Nuclear Medicine, Klinikum der Isar, Technical University of Munich, Germany

11:12 am Q & A

11:15 am ***Industry and Academic Panel: Comments and Q & A***

12:30 pm – 2:00 pm **LUNCH BREAK, REFRESHMENTS, EXHIBIT TOURS AND POSTER SESSION**

2:00 pm ***SESSION V: Panel on Bioinformatics, Artificial Intelligence and Machine Learning for a Multi-Modality Data Analysis for Precision Diagnosis and Treatment***

Moderators: Paul Boutros, MD, PhD and Masoom Haider, MD

Update on Multi-Factorial Nomograms: Amita Dave, PhD, Attending Physicist and Deputy Service Chief for Predictive Informatics, Director of Quantitative Imaging, Memorial Sloan Kettering Cancer Center

Artificial Intelligence: Liang Wang, MD, PhD, Professor and Vice Chair for Clinical Affairs, Director of Abdominal and Pelvic Imaging, Radiology Department, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, China

Machine Learning: Rakesh Shiradkar, PhD, Research Assistant Professor, Biomedical Engineering, Case Western Reserve University, Member, Case Comprehensive Cancer Center

2:45 pm

SESSION VI. SUMMARY PANEL DISCUSSION ON SUMMIT HIGHLIGHTS – *Best Emerging Clinical Practices and Research Priorities in Precision Screening, Diagnosis and Treatment*

Gerald Andriole, MD; David Crawford, MD; Masoom Haider, MD; Angelo DeMarzo, MD, PhD; Jim C. Hu, MD; Andrei Iagaru, MD; David Nanus, MD; Alan Pollack, MD, PhD; Faina Shtern, MD; and Clare Tempany, MD

3:30 pm

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