SESSION FOUR: OPTIMIZING ANNUAL LUNG CANCER SCREENING CT TO CHARACTERIZE CORONARY ARTERY CALCIFICATION (CAC) CLINICAL EVOLUTION
1 Clinical optimization of LCS CT for CAC theragnostics (8am-9am)

15-minute overview lecture: Dr Fay Lin
45-min panel discussion: Fay Lin, Matthijs Oudkerk, David Maron [Moderators: Tochi, Matt]

• What clinical parameters need to be collected (if any)?
  • Heart rate?
  • Height and weight?
  • Race/Ethnicity?
  • Medication list (e.g. statins, hormone replacement, beta blockers)?
  • Diabetes and HbA1c?
  • CAC change over time, adjusted for the above conditions?

• What are the necessary versus ideal technical parameters?
  • ECG-gated vs nongated
  • Standard vs low radiation dose
  • Thin (0.6 mm) vs thick (2.5 mm) slices
  • Agatston vs Volume vs Mass scores

• What are the barriers in reporting/accepting these findings?
  • Will the results be credible to care providers?
  • Do we know the significance of change over time for the above conditions?
  • Will Pulmonologists know how to manage CAC scores?
  • Will Pulmonologists be willing to refer patients to Cardiologists?
Reporting Non-Coronary Cardiac Findings in LCS CT (9am-10am)

15-minute overview lecture: Dr Morteza Naghavi
45-min panel discussion: Morteza Naghavi, Fay Lin, David Maron [Moderators: Matt, David Y]

- What non-coronary cardiac findings are currently routinely assessed and what are the most likely additional candidates?
  - Aortic and pulmonary artery sizes?
  - LA and RA sizes? LV and RV sizes?
  - Mediastinal fat? Epicardial fat?

- Major illnesses that can be predicted:
  - A-fib?
  - Stroke?
  - Heart failure?

- Risk prediction models or stand-alone imaging findings?

- What are the barriers in reporting/managing these findings?
  - How do we report the findings?
  - Effect of false positives on patient anxiety and referring physician confidence
  - Do referring providers want to know them?
  - Do patients want to know them?
  - Are there an established management protocols for asymptomatic subjects?
Designing a Medicare Cardiac Controlled Observational Study

15-minute overview lecture: Dr. David Yankelevitz
45-min panel discussion: Bruce Pyenson, Morteza Naghavi, David Maron

• Are findings being acted upon?

• Current payment status for additional findings?

• With cardiac screening would we pick up the cases outside of lung screening guidelines?

• What should such a Coverage with Evidence Determination (CED) study demonstrate?

• How do we continue to update necessity of including additional finding?