SESSION FOUR: OPTIMIZING ANNUAL LUNG CANCER SCREENING CT TO CHARACTERIZE CORONARY ARTERY CALCIFICATION (CAC) CLINICAL EVOLUTION

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?

2 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?

- 3 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?