## INCLUSION CRITERIA

- Women or men age 50 to 75 years.
- Current or former smokers who have smoked cigarettes for 20 years or more. A former smoker is defined as one who has stopped smoking for one or more years.
- An estimated 3-year lung cancer risk of ≥2% based on the risk prediction model.
- ECOG performance status 0 or 1.
- Capable of providing, informed consent for screening procedures (low dose spiral CT, AFB, spirometry, blood biomarkers).

## EXCLUSION CRITERIA

- Any medical condition, such as severe heart disease (e.g. unstable angina, chronic congestive heart failure), acute or chronic respiratory failure, bleeding disorder, that in the opinion of the investigator could jeopardize the subject's safety during participation in the study or unlikely to benefit from screening due to shortened life-expectancy from the co-morbidities.
- Diagnosis of cancer except for non-melanomatous skin cancer, localized prostate cancer, carcinoma in situ (CIS) of the cervix, or superficial bladder cancer with the last treatment ≤ 5 years prior to registration onto this study.
- Ex-smoker for ≥15 years.
- On Anti-coagulant treatment such as warfarin or heparin
- Known reaction to Xyocaine, salbutamol, midazolam, and alfentanil
- Pregnancy
- Unwilling to have a spiral chest CT.
- Unwilling to sign a consent.
- Chest CT within 2 years.