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| **S1 Table. CT Screening Results at Each Round for the Incidence Cancer Cohorts with Lung Cancer**  |
| **Screening Result** | **T0 round** | **T1 Round** | **T2 Round** |
| **SDLC1, N (%)** | **SDLC2, N (%)** | **SDLC1, N (%)** | **SDLC2, N (%)** | **SDLC2, N (%)** |
| **Negative** | No or minor abnormalities not suspicious for lung cancer, or significant abnormalities unrelated to lung cancer | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| **Positive** | Nodule(s) ≥ 4 mm, masses, or other abnormalities suspicious for lung cancer | 104 (100.0%) | 92 (100.0%) | 25 (24.0%)1 | 11 (12.0%) | 0 (0.0%) |
| **Positive** | Stable abnormalities potentially related to lung cancer; no significant change since prior screening exam | 0 (0.0%) | 0 (0.0%) | 10 (9.6%)1 | 37 (40.2%) | 12 (13.0%) |
| **Positive** | New or evolving lesions relative to prior screen, suspicious for lung cancer | 0 (0.0%) | 0 (0.0%) | 69 (66.4%) | 44 (47.8%) | 80 (87.0%) |
|  |  |  |  |  |
|  |  | **T0 round** | **T1 Round** | **T2 Round** |
|  |  | **SDLC3, N (%)** | **SDLC4, N (%)** | **SDLC3, N (%)** | **SDLC4, N (%)** | **SDLC4, N (%)** |
| **Negative** | No or minor abnormalities not suspicious for lung cancer, or significant abnormalities unrelated to lung cancer | 62 (100%) | 63 (100.0%) | 0 (0.0%) | 63 (100.0%) | 0 (0.0%) |
| **Positive** | Nodule(s) ≥ 4 mm, masses, or other abnormalities suspicious for lung cancer | 0 (0.0%) | 0 (0.0%) | 8 (12.9%) | 0 (0.0%) | 0 (0.0%) |
| **Positive** | Stable abnormalities potentially related to lung cancer; no significant change since prior screening exam | 0 (0.0%) | 0 (0.0%) | 1 (1.6%)2 | 0 (0.0%) | 1 (1.6%)2 |
| **Positive** | New or evolving lesions relative to prior screen, suspicious for lung cancer | 0 (0.0%) | 0 (0.0%) | 53 (85.5%)2 | 0 (0.0%) | 62 (98.4%) |
| 1 At the T1 screen, the designation of “Positive, stable screen” was incompletely implemented across all sites; as such, some T1 screens with stable findings were merely reported as “Positive, nodule(s) ≥ 4 mm, etc.”. 2  In these cohorts, prior screens were reported as negative, but may have contained nodules < 4 mm or missed nodules that were reported to be stable or evolving on the next annual screen.  |