PICO Table

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| --- | --- | --- | --- | --- | --- | --- |
| Study | Patients/Setting | Intervention | Control | Lung cancers diagnosed | Lung cancer mortality | Overall mortality |
| **DANTE** | Italy  3 clinical sites  Enrolling: 2001-2006  Men ages 60-74  Smoking history: ≥ 20 pack-years  Current or quit ≤ 10 years ago  2450 subjects  Men: 100%  Mean age 64.6  Median 45 PY  Current: 56.9%  Median follow up 8.35 years  Ending 5/15/13 | Baseline CXR and sputum cytology  5 rounds of annual LDCT, including baseline ~~(1,264)~~  LDCT adherence: 93.7%  1300 | Baseline CXR and sputum cytology  5 rounds of annual clinical review (exam/history)  ~~(1,186)~~  Adherence: not reported  1232 | LDCT: 104 (47 stage I)  Control: 72 (16 stage I) | ~~LDCT: 59~~  ~~Control: 55~~  LDCT: 61  Control: 56 | ~~LDCT: 180~~  ~~Control: 176~~  LDCT: 186  Control: 183 |
| **DLCST** | Denmark  1 institution  Enrolling: 2004-2006  Ages 50-70  Smoking history: ≥ 20 pack years  Current or quit within 10 years (and at age > 50)  4,014 subjects  Men: 2267 (56%)  Mean age 57.9 (LDCT), 57.8 (control)  Mean pack years: 36.2  Current: 76.1%  Median follow up: 9.8 years Ending 4/7/15 | 5 rounds of annual LDCT (n = 2052)  Adherence: 95.5% | 5 rounds of annual health interviews (n = 2052)  Adherence: 93.0% | LDCT: 100 (50 stage I)  Control: 53 (8 stage I) | LDCT: 39  Control: 38 | LDCT: 165  Control: 163 |
| **ITALUNG** | Italy  3 clinical sites (Tuscany)  Enrolling: 2004-2006  Ages 55-69  Smoking history: ≥ 20 pack years Current or quit < 10 years  3206 subjects  Men: 2,074 (65%)  Mean age 60.8  Median 40 PY (LDCT), 38 PY (control) Current: 66% (LDCT), 64% (control)  Median follow up 9.3 years  Ending 12/31/14 | 4 rounds of annual LDCT (1613)  Adherence: 81% | Usual care (1593)  Adherence: Not reported, outcomes determined from regional cancer registry | LDCT: 67 (24 stage I)  Control: 71 (8 stage I) | LDCT: 43  Control: 60 | LDCT: 154  Control: 181 |
| **LSS** | United States  6 clinical sites  Enrolling: 2000-2001  Ages 55-74  Smoking history:  ≥30 pack-years  Current or quit ≤ 10 years  3318 subjects  Men: 59%  Median age: 55  Median pack year: 54  Current: 58%  Median follow up 5.2 years  Ending 12/31/05 | Annual LDCT (n = 1660)  2 rounds  Adherence: 85.8% | Annual CXR (n = 1658)  2 rounds  Adherence: 79.9% | NA | LDCT: 32  CXR: 26 | LDCT: 139  CXR: 116 |
| **LUSI** | Germany  1 region  Enrolling: 10/07-4/11  Ages 50-69  Smoking history: 25 years ≥ ¾ pack, 30 years> ½ pack  Quit ≤ 10 years  4,052 subjects  Men: 2622 (64.7%)  Median age: 55  50-54: 46.3%  55-59: 25.8%  60-64: 16.9%  65-69: 11.0%  **Median pack years NA**  Current smokers: 2506 (61.9%)  Follow up: Median 8.89 years as of end of study  Ended 4/30/18 | 5 rounds of annual LDCT (n = 2029)  Adherence: 84% completed all 5 screens | No intervention, sent annual survey  (n = 2023)  Adherence: 94.0% provided responses covering a minimum of 7 years | LDCT: 85 (47 stage I)  58 screen-detected  Control: 67  (4 stage I) | LDCT: 29  Control: 40 | LDCT: 148  Control: 150 |
| **LUSI** | Women | 714 | 716 | LDCT: 26  Control: 21 | LDCT: 4  Control: 13 | LDCT: 22  Control: 27 |
| **LUSI** | Men | 1315 | 1307 | LDCT: 59  Control: 46 | LDCT: 25  Control: 27 | LDCT: 126  Control: 123 |
| **MILD** | Italy  1 center  Enrolling: 12/05-1/11  Ages 49 to 75  Tobacco use: ≥ 20 pack years, current or quit < 10 years  3,446 subjects  Men: 2224 (64.5%)  Median age: 57  Median pack years: 38  Current: 89.7% control, 86.7% LDCT  Median follow up: 9-10 years (93.5% followed 9 years)  End date: June 2018 | 1,723 annual (median 5 rounds) or biennial (median 3 rounds) LDCT  Adherence: 86% | 1,723 | LDCT: **63**  (UNK stage I) Control: 60  (13 stage I) | LDCT: 31  Control: 40 | LDCT: 92  Control: 106 |
| **NELSON** | 4 centers in Belgium/  Netherlands  Enrolling 2003-?  Ages 50-75  Smoking history: 25 years ≥ ¾ pack, 30 years> ½ pack  Quit ≤ 10 years  Exclude lung cancer < 5 years and/or on treatment  15,822 subjects (NDL only)  Men: 13,225 (84%)  Median age: 58  Median pack years: 38  Current: 55%  Median follow up: NA  Ending 12/31/15 | 7915  4 rounds of screening, baseline, 1 year, 3 year, 5.5 year  Adherence: 94% | 7907  No screening, tobacco cessation counseling | NA | NA | LDCT: 904  Control: 934 |
| NELSON | Women |  |  |  |  |  |
| NELSON | Men |  |  |  | LDCT: 157  Control: 214 |  |
| **NLST** | United States  33 clinical sites  Enrolling: 2002-2004  Ages 55-74  Smoking history:  ≥30 pack-years  Current or quit ≤ 15 years  53,452 subjects  Men: 31,530 (59.5%)  Mean age 61.4  Median 48 PY  Current: 48%  Median follow up 6.5 years  Ending 12/31/09 | 3 rounds of annual LDCT (26,722)  Adherence: 95% | 3 rounds of annual CXR (26,730) | LDCT: 1060 (520 stage I)  CXR: 941 (289 stage I) | LDCT: 469  CXR: 552 | LDCT: 1912  CXR: 2039 |
| NLST | Women | 10,953 | 10,969 |  | LDCT: 158  CXR: 215 | LDCT: 574  CXR: 619 |
| NLST | Men | 15,769 | 15,761 |  | LDCT: 311  CXR: 337 | LDCT: 1338  CXR: 1420 |
| **Yang** | China  Enrolled 2013-2014  6 communities  Ages 45-70  Smoking history:  ≥ 20 PY  Current or quit < 15 years  Other environmental, personal, or family risk factors  6,717 subjects  Men: 3,114 (46.8%)  Mean age: 59.8  Median PY: NA  Current: 21.5%  Follow up: 2 years  Ending? | 3 rounds of biennial screening  (3,550)  98.9% adherence | Standard care  3,167 | LDCT: 52  Control: 10 | LDCT: 0  Control: 2 | NA  NA |