|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable**  **Table 1: Demographic, clinical variables and radiological variables** | **AFB smear positive (N 574)** | | **AFB smear negative (N 483)** | | **P value** | **N of missing values** |
| **N** | **% or 95%confidence interval** | **N** | **% or 95%confidence interval** |
| Age (mean , SD) | ― | 44.0-21.0 | ― | 44.7-21.7 | 0.61 | 1 |
| Male sex | 332 | 58 | 272 | 57.6 | 0.89 | 12 |
| Aboriginal | 6 | 0 | 0 | 1 | 0.02 | 0 |
| Incidence(mean , SD) **€** | 562 | 179.9-7.18 | 463 | 181.8-6.74 | 0.84 | 30 |
| Country of origin TB incidence > 50/100,000 | 377 | 67 | 333 | 71.6 | 0.13 | 31 |
| Homeless | 7 | 1.2 | 2 | 0.4 | 0.16 | 0 |
| jailed | 4 | 0.6 | 0 | 0 | 0.06 | 0 |
| Health facility | 1 | 0.17 | 1 | 0.2 | 0.90 | 0 |
| History of TB contact | 103 | 21.9 | 104 | 25.8 | 0.18 | 184 |
| History of past TB | 63 | 11.8 | 65 | 14.4 | 0.25 | 80 |
| Past active TB treatment | 39 | 7.4 | 38 | 8.6 | 0.55 | 104 |
| Past latent TB treatment | 8 | 13.7 | 10 | 23.8 | 0.37 | 127 |
| lung disease **¶** | 123 | 22.1 | 193 | 20.1 | 0.40 | 42 |
| liver disease **£** | 33 | 6 | 19 | 4.1 | 0.18 | 43 |
| kidney disease **§** | 17 | 3.1 | 18 | 3.9 | 0.46 | 47 |
| Diabetes mellitus | 55 | 10 | 31 | 6.7 | 0.06 | 50 |
| Immune suppression | 75 | 13.9 | 49 | 10.7 | 0.12 | 60 |
| Hsitroy of cancer | 21 | 3.6 | 17 | 3.5 | 0.91 | 0 |
| Immune suppressive meds | 6 | 1 | 4 | 0.8 | 0.72 | 0 |
| HIV | 60 | 14 | 26 | 7.4 | 0.003 | 281 |
| Current smoker | 133 | 27.6 | 82 | 19.7 | 0.005 | 162 |
| Ever smoker | 202 | 43 | 132 | 32.4 | 0.001 | 181 |
| alcoholic | 99 | 21.8 | 72 | 18.9 | 0.27 | 227 |
| IV drug abuser | 16 | 3.3 | 6 | 1.5 | 0.07 | 222 |
| Cough with/without sputum | 485 | 86 | 254 | 54 | 0.000 | 24 |
| hemoptysis | 131 | 25 | 48 | 10.8 | 0.000 | 90 |
| Any Systemic Symptoms **¥** | 450 | 78.4 | 211 | 43.78 | 0.000 | 0 |
| Pleural disease **Σ** | 61 | 14.72 | 83 | 13.2 | 0.49 | 30 |
| LAP/Miliary | 27 | 4.8 | 26 | 5.63 | 0.55 | 31 |
| **Major abnormality in Chest-X-Ray**  **σ** | | | | | | |
| Normal Chest-X-Ray and others  **ψ** | 79 | 14.21 | 187 | 41.74 | 0.000 | 52 |
| Cavitation | 220 | 39.57 | 66 | 14.73 |
| Consolidation | 254 | 45.68 | 194 | 43.30 |
| N. of involved lung lobes (mean , SD) | 450 | 1.66-1.17 | 554 | 1.13-0.94 | 0.000 | 52 |

**Abbreviations :** SD, standard deviation**,** AFB, acid fast bacilli; N number, TB tuberculosis, HIV Human immune deficiency virus, IV Intravenous.

**Notes: #** Percentage of patients positive for the variable of both arms.

**$** Mean in years.

**¶** COPD or asthma

**£** Chronic hepatitis, chronic liver dysfunction or liver transplant.

**§** Chronic kidney insufficiency or kidney transplant

**¥** Fever, sweats, fatigue, weight loss, or loss of appetite.

**Σ** Pleural effusion or thickening.

**σ** Major abnormality on Chest-X-Ray:

Cavitation and may also had consolidation or fibrosis or granuloma or effusion.

Consolidation and may also had fibrosis or granuloma or pleural effusion.

**Ψ** May have other findings ( lymphadenopathy , fibrosis , granuloma or pleural effusion)

**Table 1: Demographic, clinical variables and radiological variables**

**Table 2: Univariate and multivariate analysis odds ratio**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variable** | **Univariate analysis** | | **Multivariate analysis** | |
| **OR** | **95% CI** | **OR** | **95% CI** |
| Age **$** | 0.99 | 0.99- 1.00 | 1.00 | 0.99-1.01 |
| Male sex (%) | 1.02 | 0.79-1.3 | 0.93 | 0.64-1.35 |
| Aboriginal | 1 |  |  |  |
| Incidence **€** | 0.99 | 0.99-1.00 | 1.00 | 0.97-1.03 |
| Country of origin TB incidence > 50/100,000 | 0.81 | 0.62-1.06 |  |  |
| Homeless | 2.96 | 0.61-14.33 |  |  |
| jailed | 1 |  |  |  |
| Health facility | 0.84 | 0.05-13.46 |  |  |
| History of TB contact | 0.81 | 0.59-1.10 |  |  |
| History of past TB | 0.81 | 0.55-1.17 |  |  |
| Past active TB treatment | 0.87 | 0.54-1.38 |  |  |
| Past latent TB treatment | 0.65 | 0.25-1.66 |  |  |
| lung disease **¶** | 1.13 | 0.84-1.54 | 0.89 | 0.57-1.39 |
| liver disease **£** | 1.48 | 0.83-2.64 | 1.40 | 0.60-3.28 |
| kidney disease **§** | 0.78 | 0.39-1.53 | 1.24 | 0.46-3.34 |
| Diabetes mellitus | 1.53 | 0.96-2.42 | 1.00 | 0.49-2.04 |
| Immune suppression | 1.35 | 0.92-1.98 | 1.62 | 0.92-2.84 |
| History of cancer | 1.04 | 0.54-1.99 |  |  |
| Immune suppressive meds | 1.26 | 0.35-4.49 |  |  |
| HIV | 2.03 | 1.25-3.30 |  |  |
| Current smoker | 1.56 | 1.14-2.13 | 1.02 | 0.66-1.59 |
| Ever smoker | 1.58 | 1.19-2.08 |  |  |
| Alcoholic | 1.21 | 0.86-1.69 |  |  |
| IV drug abuser | 2.32 | 0.89-5.99 |  |  |
| Cough with/without sputum | 5.26 | 3.89-7.10 | 3.25 | 2.12-4.99 |
| Hemoptysis | 2.74 | 1.91-3.91 | 1.70 | 1.06-2.74 |
| Any Systemic Symptoms **¥** | 4.66 | 3.56-6.09 | 2.80 | 1.91-4.12 |
| Pleural disease **Σ** | 1.13 | 0.79-1.62 |  |  |
| LAP/Miliary | 0.84 | 0.48-1.46 |  |  |
| **Major abnormality in Chest-X-Ray**  **σ** | | | | |
| Normal Chest-X-Ray and others  **ψ** | 1 |  |  |  |
| Cavitation | 7.89 | 5.39-11.54 | 3.99 | 2.34-6.79 |
| Consolidation | 3.11 | 2.24-4.28 | 1.40 | 0.88-2.24 |
| N. of involved lung lobes (mean , SD) | 1.64 | 1.43-1.88 | 1.39 | 1.15-1.66 |

**Table 2: Univariate and multivariate analysis odds ratio**

**Abbreviations:** AFB acid fast bacilli, CI confidence interval, TB tuberculosis, HIV Human immune deficiency virus, IV Intravenous, LAP Lymphadenopathy.

**Notes: #** Percentage of patients positive for the variable of both arms.

**$** Mean in years.

**¶** COPD or asthma

**£** Chronic hepatitis, chronic liver dysfunction or liver transplant.

**§** Chronic kidney insufficiency or kidney transplant

**¥** Fever, sweats, fatigue, weight loss, or loss of appetite.

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