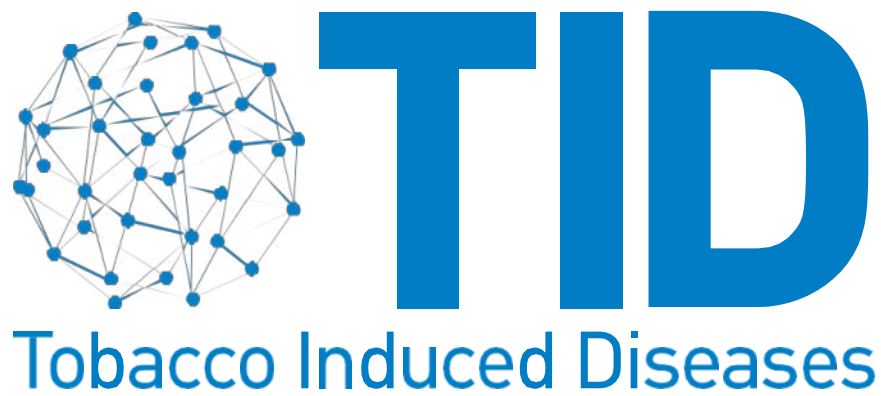




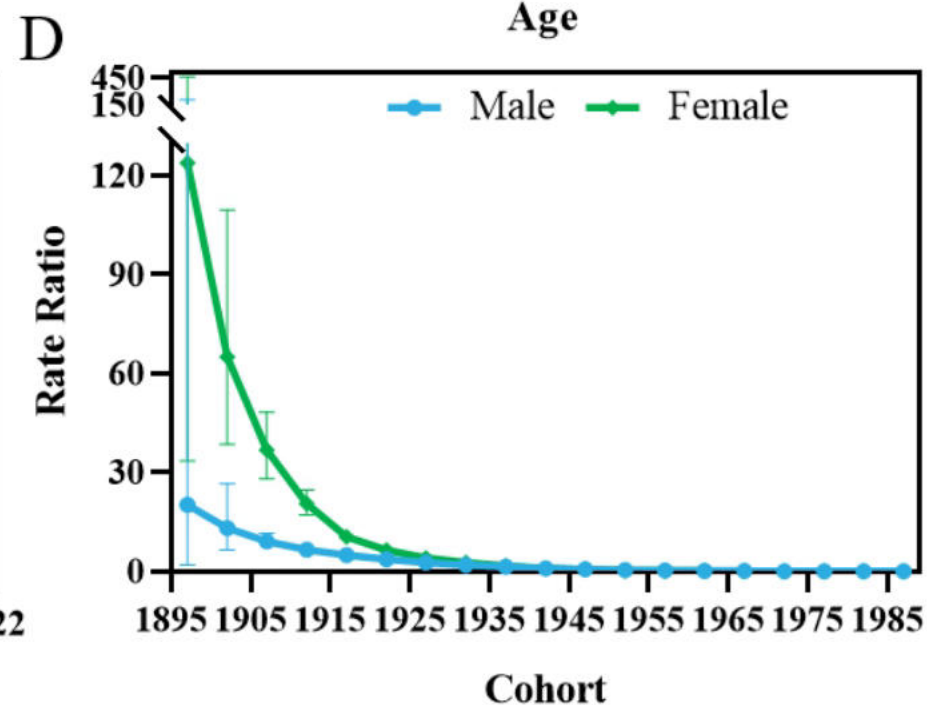
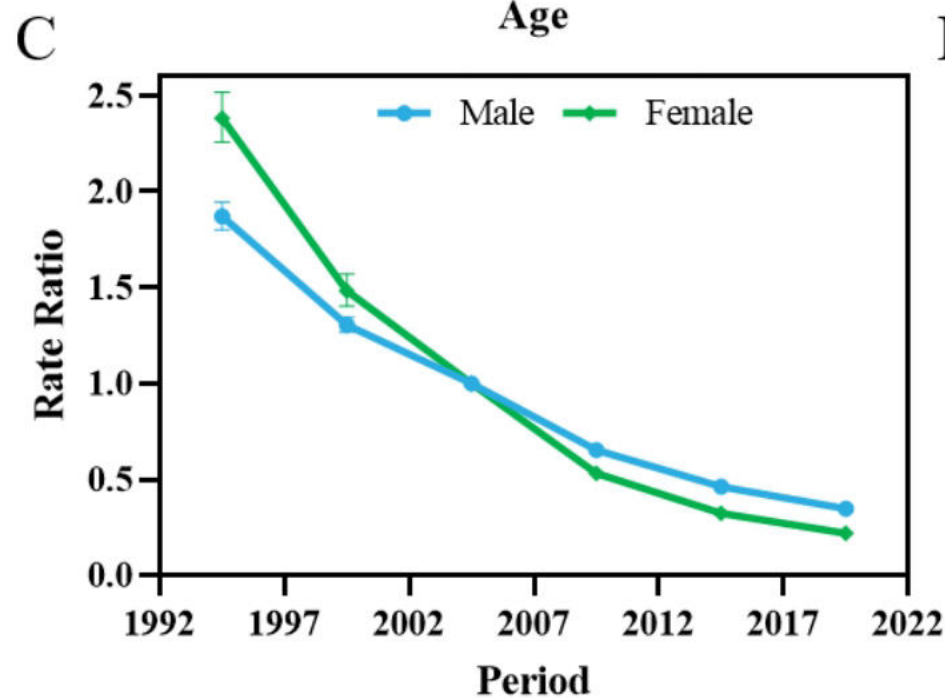
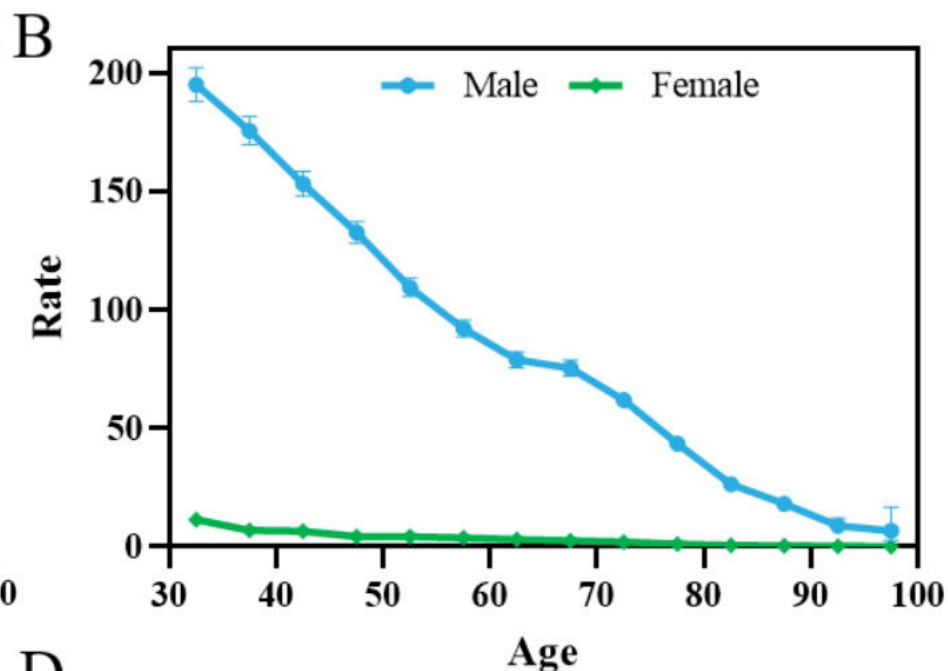
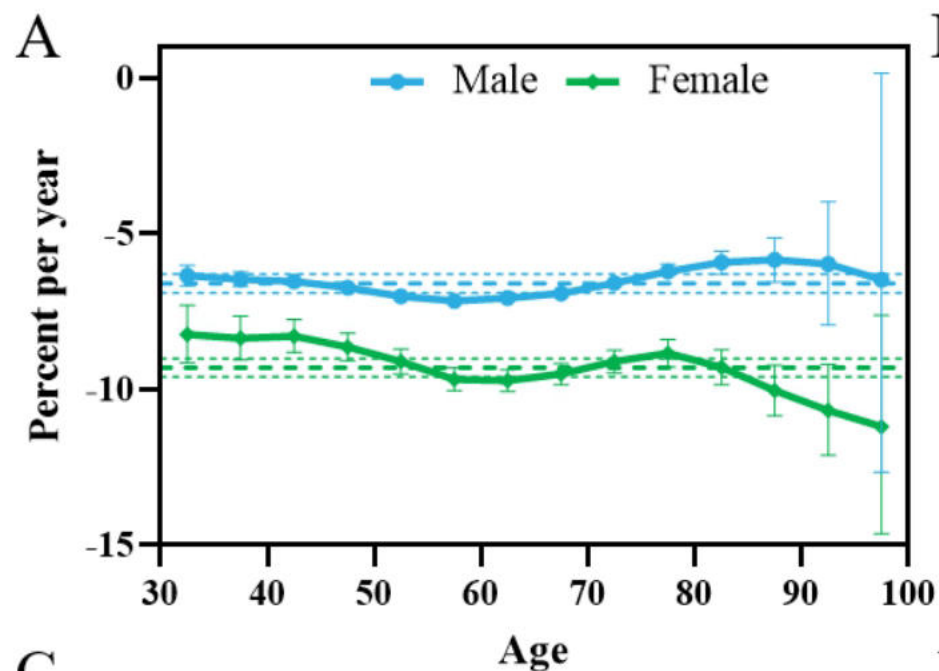
### **Supplementary file**

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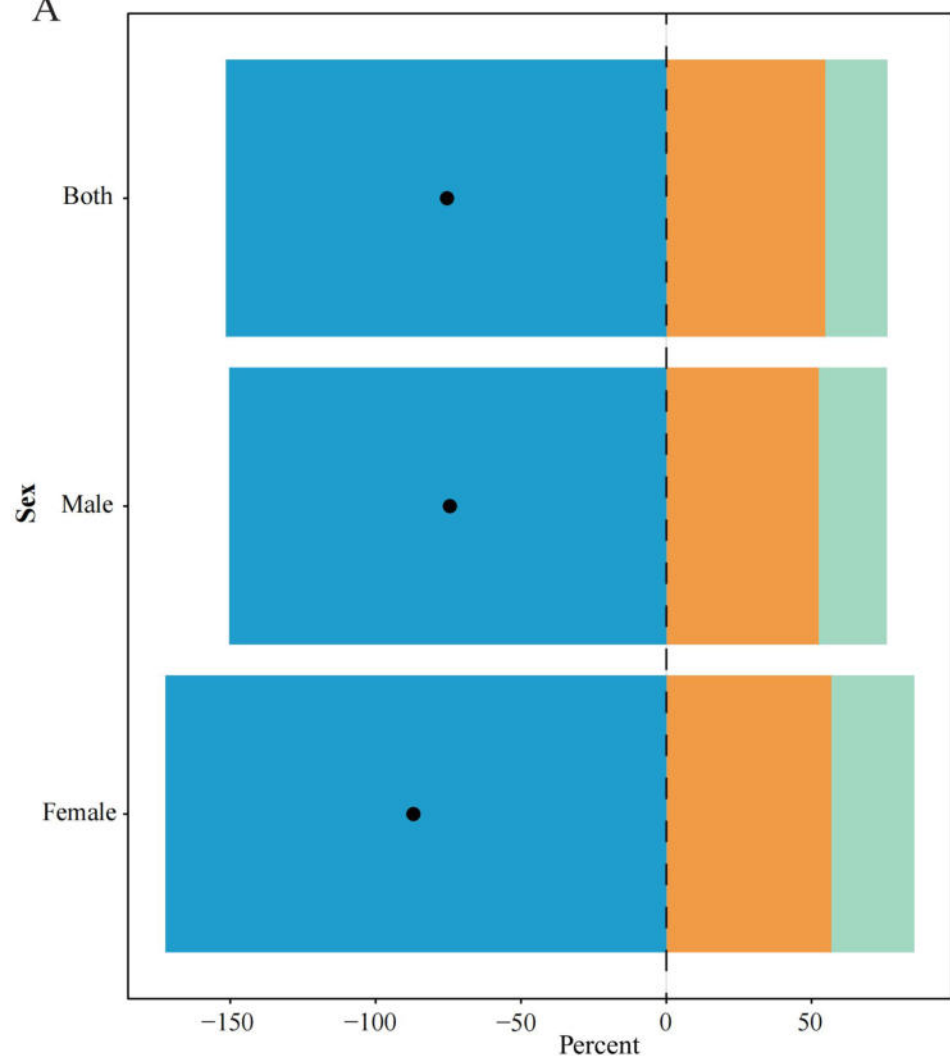
**DOI:**

10.18332/tid/215180

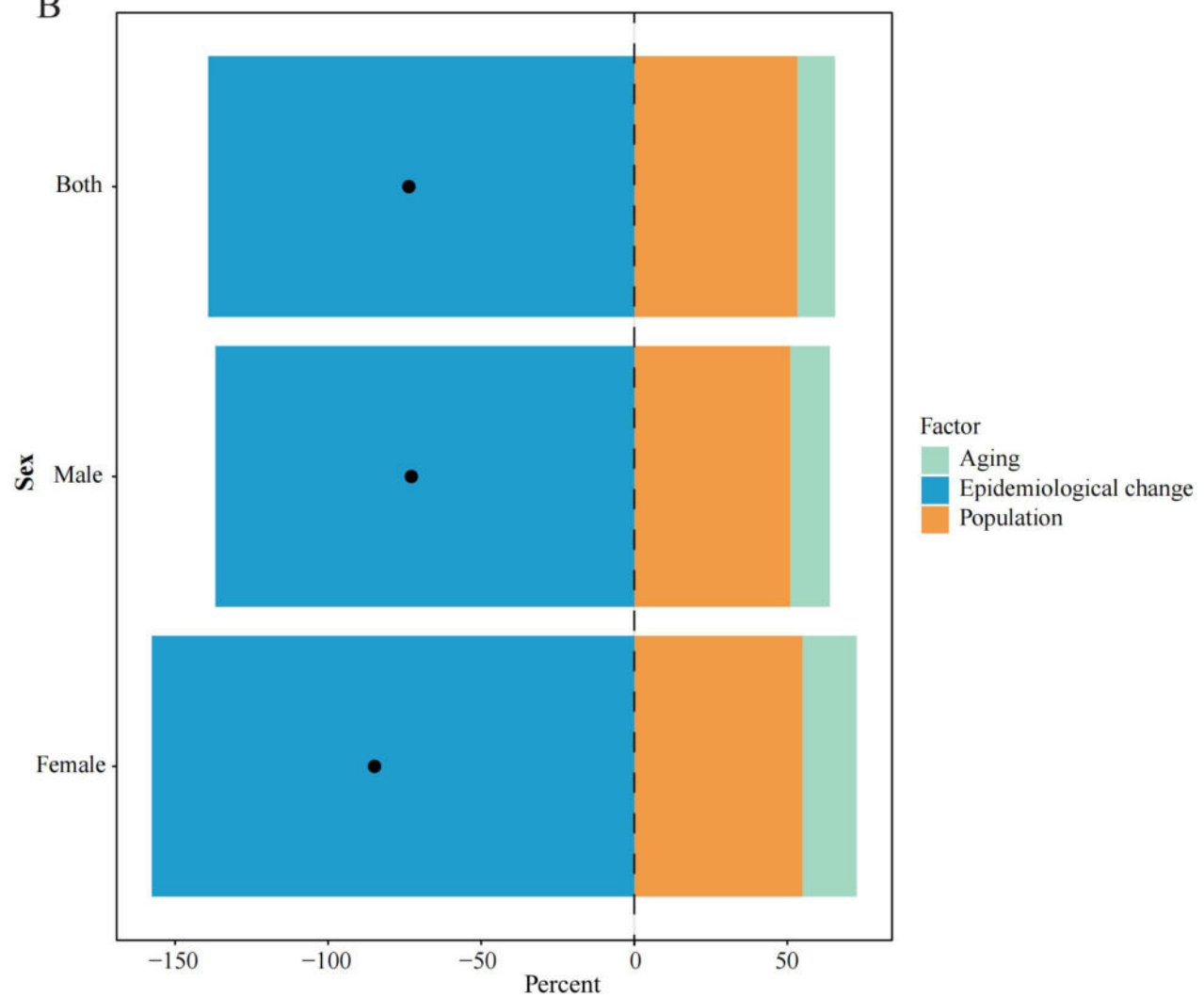
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A



B



# S1. Joinpoint regression analysis of ASMR and ASDR due to smoking-attributable TB in Chi

| measure | location | sex    | cause        | rei     | age              | joinpoint | AAPC.Index |
|---------|----------|--------|--------------|---------|------------------|-----------|------------|
| Deaths  | China    | Male   | Tuberculosis | Smoking | Age-standardized | 4         | Full Range |
| Deaths  | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | Full Range |
| DALYs   | China    | Male   | Tuberculosis | Smoking | Age-standardized | 5         | Full Range |
| DALYs   | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | Full Range |

| measure | location | sex    | cause        | rei     | age              | joinpoint | Segment |
|---------|----------|--------|--------------|---------|------------------|-----------|---------|
| Deaths  | China    | Male   | Tuberculosis | Smoking | Age-standardized | 4         | 0       |
| Deaths  | China    | Male   | Tuberculosis | Smoking | Age-standardized | 4         | 1       |
| Deaths  | China    | Male   | Tuberculosis | Smoking | Age-standardized | 4         | 2       |
| Deaths  | China    | Male   | Tuberculosis | Smoking | Age-standardized | 4         | 3       |
| Deaths  | China    | Male   | Tuberculosis | Smoking | Age-standardized | 4         | 4       |
| Deaths  | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 0       |
| Deaths  | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 1       |
| Deaths  | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 2       |
| Deaths  | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 3       |
| Deaths  | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 4       |
| Deaths  | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 5       |
| DALYs   | China    | Male   | Tuberculosis | Smoking | Age-standardized | 5         | 0       |
| DALYs   | China    | Male   | Tuberculosis | Smoking | Age-standardized | 5         | 1       |
| DALYs   | China    | Male   | Tuberculosis | Smoking | Age-standardized | 5         | 2       |
| DALYs   | China    | Male   | Tuberculosis | Smoking | Age-standardized | 5         | 3       |
| DALYs   | China    | Male   | Tuberculosis | Smoking | Age-standardized | 5         | 4       |
| DALYs   | China    | Male   | Tuberculosis | Smoking | Age-standardized | 5         | 5       |
| DALYs   | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 0       |
| DALYs   | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 1       |
| DALYs   | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 2       |
| DALYs   | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 3       |
| DALYs   | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 4       |
| DALYs   | China    | Female | Tuberculosis | Smoking | Age-standardized | 5         | 5       |

TB, tuberculosis; ASMR, age-standardized mortality rate; ASDR, age-standardized disability adjust

nese males and females, 1990-2021.

| Start.Obs | End.Obs | AAPC 95CI              | Significant indicator | Test.Statistic | P.Value |
|-----------|---------|------------------------|-----------------------|----------------|---------|
| 1990      | 2021    | -7.10 (-7.42 to -6.78) | Yes                   | -41,57         | 0       |
| 1990      | 2021    | -9.45 (-9.77 to -9.12) | Yes                   | -54,58         | 0       |
| 1990      | 2021    | -6.49 (-6.73 to -6.25) | Yes                   | -50,91         | 0       |
| 1990      | 2021    | -8.59 (-8.87 to -8.31) | Yes                   | -57,52         | 0       |

| Segment.Start | Segment.End | APC_95CI                  | Significant_indicator | Test.Statistic | P.Value |
|---------------|-------------|---------------------------|-----------------------|----------------|---------|
| 1990          | 1999        | -7.44 (-7.72 to -7.16)    | Yes                   | -54,40         | 0       |
| 1999          | 2004        | -3.47 (-4.39 to -2.55)    | Yes                   | -7,80          | 0       |
| 2004          | 2007        | -11.93 (-14.26 to -9.54)  | Yes                   | -9,95          | 0       |
| 2007          | 2011        | -9.13 (-10.36 to -7.87)   | Yes                   | -14,69         | 0       |
| 2011          | 2021        | -6.27 (-6.54 to -5.99)    | Yes                   | -46,21         | 0       |
| 1990          | 1993        | -6.42 (-8.05 to -4.77)    | Yes                   | -8,09          | 0       |
| 1993          | 1998        | -10.34 (-11.26 to -9.42)  | Yes                   | -22,75         | 0       |
| 1998          | 2004        | -6.63 (-7.27 to -5.99)    | Yes                   | -21,26         | 0       |
| 2004          | 2008        | -16.37 (-17.62 to -15.10) | Yes                   | -25,24         | 0       |
| 2008          | 2013        | -11.17 (-12.05 to -10.27) | Yes                   | -25,10         | 0       |
| 2013          | 2021        | -7.36 (-7.76 to -6.97)    | Yes                   | -37,94         | 0       |
| 1990          | 1992        | -5.34 (-7.58 to -3.05)    | Yes                   | -4,89          | 0       |
| 1992          | 1999        | -7.30 (-7.61 to -6.99)    | Yes                   | -48,23         | 0       |
| 1999          | 2004        | -4.03 (-4.61 to -3.44)    | Yes                   | -14,26         | 0       |
| 2004          | 2007        | -10.27 (-11.81 to -8.70)  | Yes                   | -13,29         | 0       |
| 2007          | 2013        | -7.26 (-7.64 to -6.87)    | Yes                   | -38,76         | 0       |
| 2013          | 2021        | -5.55 (-5.80 to -5.30)    | Yes                   | -45,40         | 0       |
| 1990          | 1993        | -6.16 (-7.40 to -4.90)    | Yes                   | -10,18         | 0       |
| 1993          | 1998        | -9.84 (-10.54 to -9.15)   | Yes                   | -28,60         | 0       |
| 1998          | 2004        | -6.50 (-6.98 to -6.02)    | Yes                   | -27,90         | 0       |
| 2004          | 2007        | -14.55 (-16.54 to -12.51) | Yes                   | -14,21         | 0       |
| 2007          | 2013        | -10.06 (-10.53 to -9.59)  | Yes                   | -43,19         | 0       |
| 2013          | 2021        | -6.82 (-7.11 to -6.53)    | Yes                   | -48,33         | 0       |

ted life year rate; AAPC, average annual percentage change; APC, annual percentage change; CI, confidence

**S2. Comparison of the EAPCs in mortality rates and DALYs for smoking-attributable TB between ma**

| <b>Measure</b> | <b>EAPC (95% CI) Male</b> | <b>EAPC (95% CI) Female</b> | <b>P-value</b> |
|----------------|---------------------------|-----------------------------|----------------|
| <b>Deaths</b>  | -7.24 (-7.44, -7.04)      | -10.11 (-10.43, -9.79)      | <0.001         |
| <b>DALYs</b>   | -6.68 (-6.81, -6.54)      | -9.10 (-9.33, -8.87)        | <0.001         |

EAPC, estimated annual percentage change; DALYs, disability adjusted life years; TB, tuberculosis; CI, confidence interval.

**S3. Net drift and local drift values for smoking-attributable TB mortality and D**

| <b>measure</b> | <b>location</b> | <b>sex</b> | <b>cause</b> | <b>rei</b> | <b>Net Drift (%/year)</b> | <b>CI Low</b> |
|----------------|-----------------|------------|--------------|------------|---------------------------|---------------|
| Deaths         | China           | Male       | Tuberculosis | Smoking    | -7,21                     | -7,37         |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | -10,14                    | -10,46        |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | -6,59                     | -6,90         |
| DALYs          | China           | Female     | Tuberculosis | Smoking    | -9,30                     | -9,60         |

| <b>measure</b> | <b>location</b> | <b>sex</b> | <b>cause</b> | <b>rei</b> | <b>label</b> | <b>Age</b> |
|----------------|-----------------|------------|--------------|------------|--------------|------------|
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 30 to 34     | 32,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 35 to 39     | 37,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 40 to 44     | 42,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 45 to 49     | 47,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 50 to 54     | 52,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 55 to 59     | 57,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 60 to 64     | 62,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 65 to 69     | 67,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 70 to 74     | 72,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 75 to 79     | 77,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 80 to 84     | 82,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 85 to 89     | 87,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 90 to 94     | 92,5       |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 95 plus      | 97,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 30 to 34     | 32,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 35 to 39     | 37,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 40 to 44     | 42,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 45 to 49     | 47,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 50 to 54     | 52,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 55 to 59     | 57,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 60 to 64     | 62,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 65 to 69     | 67,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 70 to 74     | 72,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 75 to 79     | 77,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 80 to 84     | 82,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 85 to 89     | 87,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 90 to 94     | 92,5       |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 95 plus      | 97,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 30 to 34     | 32,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 35 to 39     | 37,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 40 to 44     | 42,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 45 to 49     | 47,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 50 to 54     | 52,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 55 to 59     | 57,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 60 to 64     | 62,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 65 to 69     | 67,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 70 to 74     | 72,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 75 to 79     | 77,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 80 to 84     | 82,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 85 to 89     | 87,5       |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 90 to 94     | 92,5       |

**S5. Period effects for smoking-attributable TB in China, represented by age-specific rate ratios of relative mortality and DALY risk for five-year periods from 1992-1996 to 2017-2021 (reference: 2002-2006).**

| measure | location | sex    | cause        | rei     | label        | Period | Rate Ratio | CI Low | CI High |
|---------|----------|--------|--------------|---------|--------------|--------|------------|--------|---------|
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1992 to 1996 | 1994,5 | 1,92       | 1,87   | 1,97    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1997 to 2001 | 1999,5 | 1,31       | 1,28   | 1,34    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 2002 to 2006 | 2004,5 | 1,00       | 1,00   | 1,00    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 2007 to 2011 | 2009,5 | 0,61       | 0,59   | 0,62    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 2012 to 2016 | 2014,5 | 0,42       | 0,41   | 0,43    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 2017 to 2021 | 2019,5 | 0,31       | 0,29   | 0,32    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1992 to 1996 | 1994,5 | 2,40       | 2,24   | 2,56    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1997 to 2001 | 1999,5 | 1,48       | 1,38   | 1,58    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 2002 to 2006 | 2004,5 | 1,00       | 1,00   | 1,00    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 2007 to 2011 | 2009,5 | 0,48       | 0,44   | 0,52    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 2012 to 2016 | 2014,5 | 0,27       | 0,25   | 0,30    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 2017 to 2021 | 2019,5 | 0,18       | 0,16   | 0,20    |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 1992 to 1996 | 1994,5 | 1,87       | 1,80   | 1,95    |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 1997 to 2001 | 1999,5 | 1,30       | 1,27   | 1,34    |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 2002 to 2006 | 2004,5 | 1,00       | 1,00   | 1,00    |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 2007 to 2011 | 2009,5 | 0,65       | 0,63   | 0,67    |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 2012 to 2016 | 2014,5 | 0,46       | 0,44   | 0,48    |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 2017 to 2021 | 2019,5 | 0,35       | 0,33   | 0,37    |
| DALYs   | China    | Female | Tuberculosis | Smoking | 1992 to 1996 | 1994,5 | 2,38       | 2,26   | 2,52    |
| DALYs   | China    | Female | Tuberculosis | Smoking | 1997 to 2001 | 1999,5 | 1,48       | 1,40   | 1,57    |
| DALYs   | China    | Female | Tuberculosis | Smoking | 2002 to 2006 | 2004,5 | 1,00       | 1,00   | 1,00    |
| DALYs   | China    | Female | Tuberculosis | Smoking | 2007 to 2011 | 2009,5 | 0,53       | 0,50   | 0,57    |
| DALYs   | China    | Female | Tuberculosis | Smoking | 2012 to 2016 | 2014,5 | 0,32       | 0,30   | 0,35    |
| DALYs   | China    | Female | Tuberculosis | Smoking | 2017 to 2021 | 2019,5 | 0,22       | 0,20   | 0,24    |

TB, tuberculosis; DALYs, disability adjusted life years; CI, confidence interval.

|       |       |        |              |         |          |      |
|-------|-------|--------|--------------|---------|----------|------|
| DALYs | China | Male   | Tuberculosis | Smoking | 95 plus  | 97,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 30 to 34 | 32,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 35 to 39 | 37,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 40 to 44 | 42,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 45 to 49 | 47,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 50 to 54 | 52,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 55 to 59 | 57,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 60 to 64 | 62,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 65 to 69 | 67,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 70 to 74 | 72,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 75 to 79 | 77,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 80 to 84 | 82,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 85 to 89 | 87,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 90 to 94 | 92,5 |
| DALYs | China | Female | Tuberculosis | Smoking | 95 plus  | 97,5 |

---

TB, tuberculosis; DALYs, disability adjusted life years; CI, confidence interval.

**ALY rates in China, 1990-2021.****CI High**

-7,05

-9,82

-6,28

-9,01

**Mean Percent Change per Calendar Year****CI Low CI High**

-6,89 -7,31 -6,46

-6,97 -7,27 -6,67

-6,93 -7,15 -6,71

-7,07 -7,24 -6,89

-7,36 -7,52 -7,21

-7,63 -7,78 -7,49

-7,71 -7,85 -7,58

-7,77 -7,90 -7,64

-7,50 -7,64 -7,37

-7,07 -7,23 -6,91

-6,66 -6,87 -6,44

-6,46 -6,83 -6,09

-6,59 -7,54 -5,62

-6,83 -9,82 -3,75

-9,31 -11,12 -7,46

-9,27 -10,57 -7,95

-9,13 -10,04 -8,20

-9,35 -10,05 -8,63

-9,73 -10,32 -9,13

-10,28 -10,80 -9,76

-10,41 -10,87 -9,95

-10,38 -10,80 -9,96

-10,13 -10,55 -9,71

-9,91 -10,36 -9,46

-10,30 -10,81 -9,79

-10,92 -11,57 -10,28

-11,42 -12,45 -10,38

-11,78 -14,08 -9,41

-6,34 -6,68 -6,01

-6,46 -6,70 -6,22

-6,52 -6,71 -6,33

-6,73 -6,89 -6,57

-7,00 -7,15 -6,85

-7,15 -7,30 -7,00

-7,06 -7,21 -6,91

-6,92 -7,07 -6,76

-6,58 -6,75 -6,40

-6,20 -6,43 -5,97

-5,92 -6,28 -5,55

-5,84 -6,54 -5,13

-5,97 -7,93 -3,97

|        |        |       |
|--------|--------|-------|
| -6,47  | -12,67 | 0,16  |
| -8,23  | -9,14  | -7,30 |
| -8,35  | -9,05  | -7,65 |
| -8,29  | -8,81  | -7,76 |
| -8,63  | -9,07  | -8,19 |
| -9,10  | -9,50  | -8,70 |
| -9,67  | -10,03 | -9,30 |
| -9,72  | -10,06 | -9,37 |
| -9,51  | -9,84  | -9,17 |
| -9,11  | -9,47  | -8,74 |
| -8,84  | -9,27  | -8,40 |
| -9,28  | -9,84  | -8,72 |
| -10,03 | -10,83 | -9,23 |
| -10,67 | -12,11 | -9,20 |
| -11,20 | -14,63 | -7,63 |

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**S4. Age effects on smoking-attributable TB mortality ar**

| <b>measure</b> | <b>location</b> | <b>sex</b> | <b>cause</b> | <b>rei</b> | <b>Age</b> | <b>label</b> | <b>Rate</b> | <b>CI Low</b> | <b>CI High</b> |
|----------------|-----------------|------------|--------------|------------|------------|--------------|-------------|---------------|----------------|
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 32,5       | 30 to 34     | 2,96        | 2,84          | 3,10           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 37,5       | 35 to 39     | 2,88        | 2,77          | 3,00           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 42,5       | 40 to 44     | 2,82        | 2,72          | 2,93           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 47,5       | 45 to 49     | 2,66        | 2,57          | 2,76           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 52,5       | 50 to 54     | 2,43        | 2,34          | 2,53           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 57,5       | 55 to 59     | 2,23        | 2,14          | 2,32           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 62,5       | 60 to 64     | 2,11        | 2,03          | 2,20           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 67,5       | 65 to 69     | 2,15        | 2,06          | 2,24           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 72,5       | 70 to 74     | 1,97        | 1,88          | 2,06           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 77,5       | 75 to 79     | 1,74        | 1,66          | 1,83           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 82,5       | 80 to 84     | 1,36        | 1,29          | 1,44           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 87,5       | 85 to 89     | 1,15        | 1,07          | 1,24           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 92,5       | 90 to 94     | 0,58        | 0,50          | 0,69           |
| Deaths         | China           | Male       | Tuberculosis | Smoking    | 97,5       | 95 plus      | 0,50        | 0,32          | 0,77           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 32,5       | 30 to 34     | 0,18        | 0,15          | 0,21           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 37,5       | 35 to 39     | 0,12        | 0,10          | 0,14           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 42,5       | 40 to 44     | 0,12        | 0,10          | 0,14           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 47,5       | 45 to 49     | 0,08        | 0,07          | 0,10           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 52,5       | 50 to 54     | 0,09        | 0,08          | 0,11           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 57,5       | 55 to 59     | 0,09        | 0,08          | 0,10           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 62,5       | 60 to 64     | 0,08        | 0,07          | 0,09           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 67,5       | 65 to 69     | 0,07        | 0,06          | 0,08           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 72,5       | 70 to 74     | 0,06        | 0,05          | 0,07           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 77,5       | 75 to 79     | 0,04        | 0,03          | 0,05           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 82,5       | 80 to 84     | 0,03        | 0,02          | 0,04           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 87,5       | 85 to 89     | 0,02        | 0,02          | 0,03           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 92,5       | 90 to 94     | 0,02        | 0,01          | 0,02           |
| Deaths         | China           | Female     | Tuberculosis | Smoking    | 97,5       | 95 plus      | 0,01        | 0,01          | 0,02           |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 32,5       | 30 to 34     | 194,83      | 187,84        | 202,08         |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 37,5       | 35 to 39     | 175,46      | 169,54        | 181,59         |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 42,5       | 40 to 44     | 153,08      | 148,02        | 158,31         |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 47,5       | 45 to 49     | 132,53      | 128,04        | 137,18         |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 52,5       | 50 to 54     | 109,32      | 105,45        | 113,35         |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 57,5       | 55 to 59     | 91,88       | 88,41         | 95,49          |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 62,5       | 60 to 64     | 78,77       | 75,52         | 82,16          |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 67,5       | 65 to 69     | 75,33       | 72,09         | 78,72          |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 72,5       | 70 to 74     | 61,80       | 58,90         | 64,85          |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 77,5       | 75 to 79     | 43,57       | 41,20         | 46,06          |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 82,5       | 80 to 84     | 26,42       | 24,55         | 28,44          |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 87,5       | 85 to 89     | 18,04       | 16,02         | 20,31          |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 92,5       | 90 to 94     | 8,85        | 6,52          | 12,01          |
| DALYs          | China           | Male       | Tuberculosis | Smoking    | 97,5       | 95 plus      | 6,78        | 2,76          | 16,66          |
| DALYs          | China           | Female     | Tuberculosis | Smoking    | 32,5       | 30 to 34     | 11,41       | 10,42         | 12,50          |
| DALYs          | China           | Female     | Tuberculosis | Smoking    | 37,5       | 35 to 39     | 6,96        | 6,34          | 7,65           |
| DALYs          | China           | Female     | Tuberculosis | Smoking    | 42,5       | 40 to 44     | 6,64        | 6,08          | 7,25           |
| DALYs          | China           | Female     | Tuberculosis | Smoking    | 47,5       | 45 to 49     | 4,34        | 3,94          | 4,78           |
| DALYs          | China           | Female     | Tuberculosis | Smoking    | 52,5       | 50 to 54     | 4,27        | 3,88          | 4,70           |
| DALYs          | China           | Female     | Tuberculosis | Smoking    | 57,5       | 55 to 59     | 3,75        | 3,39          | 4,14           |

|       |       |        |              |         |      |          |      |      |      |
|-------|-------|--------|--------------|---------|------|----------|------|------|------|
| DALYs | China | Female | Tuberculosis | Smoking | 62,5 | 60 to 64 | 3,02 | 2,72 | 3,37 |
| DALYs | China | Female | Tuberculosis | Smoking | 67,5 | 65 to 69 | 2,51 | 2,25 | 2,80 |
| DALYs | China | Female | Tuberculosis | Smoking | 72,5 | 70 to 74 | 1,96 | 1,74 | 2,20 |
| DALYs | China | Female | Tuberculosis | Smoking | 77,5 | 75 to 79 | 1,05 | 0,92 | 1,20 |
| DALYs | China | Female | Tuberculosis | Smoking | 82,5 | 80 to 84 | 0,63 | 0,54 | 0,74 |
| DALYs | China | Female | Tuberculosis | Smoking | 87,5 | 85 to 89 | 0,43 | 0,35 | 0,52 |
| DALYs | China | Female | Tuberculosis | Smoking | 92,5 | 90 to 94 | 0,26 | 0,19 | 0,35 |
| DALYs | China | Female | Tuberculosis | Smoking | 97,5 | 95 plus  | 0,17 | 0,09 | 0,33 |

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TB, tuberculosis; DALYs, disability adjusted life years; CI, confidence interval.

**S6. Cohort effects for smoking-attributable TB in China, represented by age-specific rate ratios of relative mortality and DALY risk for birth cohorts from 1895 to 1989 (reference: 1940-1944).**

| measure | location | sex    | cause        | rei     | label        | Cohort | Rate Ratio | CI Low | CI High |
|---------|----------|--------|--------------|---------|--------------|--------|------------|--------|---------|
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1895 to 1899 | 1897   | 26,33      | 8,71   | 79,63   |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1900 to 1904 | 1902   | 18,35      | 12,99  | 25,92   |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1905 to 1909 | 1907   | 12,09      | 10,66  | 13,72   |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1910 to 1914 | 1912   | 8,47       | 7,87   | 9,10    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1915 to 1919 | 1917   | 6,24       | 5,93   | 6,56    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1920 to 1924 | 1922   | 4,54       | 4,36   | 4,72    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1925 to 1929 | 1927   | 3,24       | 3,13   | 3,35    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1930 to 1934 | 1932   | 2,22       | 2,15   | 2,29    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1935 to 1939 | 1937   | 1,51       | 1,47   | 1,56    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1940 to 1944 | 1942   | 1,00       | 1,00   | 1,00    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1945 to 1949 | 1947   | 0,65       | 0,63   | 0,67    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1950 to 1954 | 1952   | 0,43       | 0,42   | 0,45    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1955 to 1959 | 1957   | 0,31       | 0,30   | 0,32    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1960 to 1964 | 1962   | 0,21       | 0,20   | 0,21    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1965 to 1969 | 1967   | 0,15       | 0,14   | 0,15    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1970 to 1974 | 1972   | 0,10       | 0,10   | 0,11    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1975 to 1979 | 1977   | 0,07       | 0,07   | 0,08    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1980 to 1984 | 1982   | 0,05       | 0,04   | 0,05    |
| Deaths  | China    | Male   | Tuberculosis | Smoking | 1985 to 1989 | 1987   | 0,03       | 0,03   | 0,04    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1895 to 1899 | 1897   | 183,74     | 76,63  | 440,57  |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1900 to 1904 | 1902   | 96,38      | 66,37  | 139,95  |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1905 to 1909 | 1907   | 52,47      | 42,08  | 65,44   |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1910 to 1914 | 1912   | 28,36      | 23,96  | 33,56   |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1915 to 1919 | 1917   | 13,99      | 12,16  | 16,10   |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1920 to 1924 | 1922   | 8,23       | 7,30   | 9,28    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1925 to 1929 | 1927   | 4,84       | 4,34   | 5,39    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1930 to 1934 | 1932   | 2,94       | 2,66   | 3,25    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1935 to 1939 | 1937   | 1,79       | 1,62   | 1,98    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1940 to 1944 | 1942   | 1,00       | 1,00   | 1,00    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1945 to 1949 | 1947   | 0,56       | 0,50   | 0,62    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1950 to 1954 | 1952   | 0,32       | 0,28   | 0,36    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1955 to 1959 | 1957   | 0,20       | 0,17   | 0,23    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1960 to 1964 | 1962   | 0,12       | 0,10   | 0,14    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1965 to 1969 | 1967   | 0,08       | 0,06   | 0,09    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1970 to 1974 | 1972   | 0,05       | 0,04   | 0,06    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1975 to 1979 | 1977   | 0,03       | 0,02   | 0,04    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1980 to 1984 | 1982   | 0,02       | 0,01   | 0,03    |
| Deaths  | China    | Female | Tuberculosis | Smoking | 1985 to 1989 | 1987   | 0,01       | 0,01   | 0,02    |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 1895 to 1899 | 1897   | 20,23      | 1,96   | 208,82  |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 1900 to 1904 | 1902   | 13,11      | 6,44   | 26,67   |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 1905 to 1909 | 1907   | 9,17       | 7,19   | 11,69   |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 1910 to 1914 | 1912   | 6,61       | 5,85   | 7,48    |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 1915 to 1919 | 1917   | 4,97       | 4,62   | 5,35    |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 1920 to 1924 | 1922   | 3,72       | 3,52   | 3,92    |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 1925 to 1929 | 1927   | 2,77       | 2,65   | 2,89    |
| DALYs   | China    | Male   | Tuberculosis | Smoking | 1930 to 1934 | 1932   | 2,00       | 1,92   | 2,07    |

|       |       |        |              |         |              |      |        |       |        |
|-------|-------|--------|--------------|---------|--------------|------|--------|-------|--------|
| DALYs | China | Male   | Tuberculosis | Smoking | 1935 to 1939 | 1937 | 1,43   | 1,38  | 1,49   |
| DALYs | China | Male   | Tuberculosis | Smoking | 1940 to 1944 | 1942 | 1,00   | 1,00  | 1,00   |
| DALYs | China | Male   | Tuberculosis | Smoking | 1945 to 1949 | 1947 | 0,68   | 0,65  | 0,70   |
| DALYs | China | Male   | Tuberculosis | Smoking | 1950 to 1954 | 1952 | 0,46   | 0,45  | 0,48   |
| DALYs | China | Male   | Tuberculosis | Smoking | 1955 to 1959 | 1957 | 0,33   | 0,32  | 0,34   |
| DALYs | China | Male   | Tuberculosis | Smoking | 1960 to 1964 | 1962 | 0,23   | 0,22  | 0,23   |
| DALYs | China | Male   | Tuberculosis | Smoking | 1965 to 1969 | 1967 | 0,16   | 0,16  | 0,17   |
| DALYs | China | Male   | Tuberculosis | Smoking | 1970 to 1974 | 1972 | 0,12   | 0,11  | 0,13   |
| DALYs | China | Male   | Tuberculosis | Smoking | 1975 to 1979 | 1977 | 0,09   | 0,08  | 0,09   |
| DALYs | China | Male   | Tuberculosis | Smoking | 1980 to 1984 | 1982 | 0,06   | 0,06  | 0,07   |
| DALYs | China | Male   | Tuberculosis | Smoking | 1985 to 1989 | 1987 | 0,04   | 0,04  | 0,05   |
| DALYs | China | Female | Tuberculosis | Smoking | 1895 to 1899 | 1897 | 123,88 | 33,58 | 457,04 |
| DALYs | China | Female | Tuberculosis | Smoking | 1900 to 1904 | 1902 | 65,12  | 38,67 | 109,68 |
| DALYs | China | Female | Tuberculosis | Smoking | 1905 to 1909 | 1907 | 36,88  | 28,15 | 48,31  |
| DALYs | China | Female | Tuberculosis | Smoking | 1910 to 1914 | 1912 | 20,60  | 17,17 | 24,72  |
| DALYs | China | Female | Tuberculosis | Smoking | 1915 to 1919 | 1917 | 10,46  | 9,11  | 12,01  |
| DALYs | China | Female | Tuberculosis | Smoking | 1920 to 1924 | 1922 | 6,53   | 5,87  | 7,27   |
| DALYs | China | Female | Tuberculosis | Smoking | 1925 to 1929 | 1927 | 4,06   | 3,71  | 4,45   |
| DALYs | China | Female | Tuberculosis | Smoking | 1930 to 1934 | 1932 | 2,65   | 2,44  | 2,88   |
| DALYs | China | Female | Tuberculosis | Smoking | 1935 to 1939 | 1937 | 1,70   | 1,58  | 1,84   |
| DALYs | China | Female | Tuberculosis | Smoking | 1940 to 1944 | 1942 | 1,00   | 1,00  | 1,00   |
| DALYs | China | Female | Tuberculosis | Smoking | 1945 to 1949 | 1947 | 0,59   | 0,54  | 0,64   |
| DALYs | China | Female | Tuberculosis | Smoking | 1950 to 1954 | 1952 | 0,34   | 0,31  | 0,37   |
| DALYs | China | Female | Tuberculosis | Smoking | 1955 to 1959 | 1957 | 0,22   | 0,20  | 0,24   |
| DALYs | China | Female | Tuberculosis | Smoking | 1960 to 1964 | 1962 | 0,14   | 0,12  | 0,15   |
| DALYs | China | Female | Tuberculosis | Smoking | 1965 to 1969 | 1967 | 0,09   | 0,08  | 0,11   |
| DALYs | China | Female | Tuberculosis | Smoking | 1970 to 1974 | 1972 | 0,06   | 0,05  | 0,07   |
| DALYs | China | Female | Tuberculosis | Smoking | 1975 to 1979 | 1977 | 0,04   | 0,03  | 0,05   |
| DALYs | China | Female | Tuberculosis | Smoking | 1980 to 1984 | 1982 | 0,02   | 0,02  | 0,03   |
| DALYs | China | Female | Tuberculosis | Smoking | 1985 to 1989 | 1987 | 0,02   | 0,01  | 0,02   |

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DALYs, disability adjusted life years; TB, tuberculosis; CI, confidence interval.

**S7. Numbers of deaths and DALYs and their ASRs due to smoking-attributable TB in China, 1990-2021.**

| measure | location | sex  | age      | cause        | rei     | metric | year | val   | lower | upper |
|---------|----------|------|----------|--------------|---------|--------|------|-------|-------|-------|
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 1990 | 40689 | 28322 | 53781 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 1991 | 39932 | 29541 | 51641 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 1992 | 38374 | 28287 | 51551 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 1993 | 36408 | 28024 | 47202 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 1994 | 34325 | 26538 | 44304 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 1995 | 32545 | 25631 | 40951 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 1996 | 30792 | 23853 | 38194 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 1997 | 29003 | 22791 | 37113 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 1998 | 27633 | 21955 | 34975 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 1999 | 26813 | 21086 | 33209 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2000 | 26557 | 20508 | 33337 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2001 | 25873 | 20343 | 32923 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2002 | 25569 | 19874 | 32113 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2003 | 25343 | 19349 | 32232 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2004 | 24791 | 18963 | 30891 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2005 | 23132 | 18482 | 28705 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2006 | 20461 | 16114 | 24960 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2007 | 18832 | 14714 | 22862 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2008 | 17785 | 14119 | 21731 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2009 | 16543 | 13169 | 20220 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2010 | 15485 | 11967 | 19324 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2011 | 14795 | 11634 | 18604 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2012 | 14222 | 10906 | 18130 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2013 | 13473 | 10214 | 16759 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2014 | 12930 | 9795  | 16617 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2015 | 12713 | 9618  | 16367 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2016 | 12455 | 9182  | 16444 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2017 | 11849 | 8801  | 16149 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2018 | 11317 | 7986  | 15225 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2019 | 10881 | 7385  | 15555 |
| Deaths  | China    | Male | All ages | Tuberculosis | Smoking | Number | 2020 | 10603 | 7278  | 15651 |

|        |       |      |                  |              |         |        |      |       |      |       |
|--------|-------|------|------------------|--------------|---------|--------|------|-------|------|-------|
| Deaths | China | Male | All ages         | Tuberculosis | Smoking | Number | 2021 | 10395 | 7287 | 15404 |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1990 | 9,76  | 6,86 | 12,95 |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1991 | 9,31  | 6,78 | 12,03 |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1992 | 8,70  | 6,41 | 11,77 |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1993 | 8,03  | 6,14 | 10,39 |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1994 | 7,37  | 5,71 | 9,51  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1995 | 6,80  | 5,31 | 8,64  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1996 | 6,26  | 4,86 | 7,88  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1997 | 5,74  | 4,50 | 7,31  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1998 | 5,33  | 4,20 | 6,77  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1999 | 5,03  | 3,94 | 6,24  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2000 | 4,86  | 3,73 | 6,12  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2001 | 4,63  | 3,63 | 5,94  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2002 | 4,46  | 3,47 | 5,61  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2003 | 4,32  | 3,31 | 5,51  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2004 | 4,13  | 3,17 | 5,17  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2005 | 3,77  | 3,01 | 4,69  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2006 | 3,20  | 2,51 | 3,92  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2007 | 2,85  | 2,23 | 3,50  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2008 | 2,60  | 2,06 | 3,19  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2009 | 2,35  | 1,86 | 2,89  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2010 | 2,13  | 1,64 | 2,65  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2011 | 1,97  | 1,55 | 2,48  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2012 | 1,84  | 1,42 | 2,34  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2013 | 1,69  | 1,29 | 2,10  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2014 | 1,57  | 1,20 | 2,02  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2015 | 1,50  | 1,15 | 1,93  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2016 | 1,43  | 1,05 | 1,89  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2017 | 1,32  | 0,98 | 1,80  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2018 | 1,23  | 0,87 | 1,64  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2019 | 1,15  | 0,79 | 1,63  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2020 | 1,09  | 0,75 | 1,60  |
| Deaths | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2021 | 1,04  | 0,74 | 1,55  |

|        |       |        |                  |              |         |        |      |      |      |      |
|--------|-------|--------|------------------|--------------|---------|--------|------|------|------|------|
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 1990 | 3468 | 2430 | 4777 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 1991 | 3379 | 2403 | 4625 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 1992 | 3241 | 2330 | 4462 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 1993 | 3057 | 2191 | 4074 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 1994 | 2841 | 2014 | 3777 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 1995 | 2616 | 1865 | 3533 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 1996 | 2414 | 1755 | 3294 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 1997 | 2210 | 1617 | 2930 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 1998 | 2048 | 1498 | 2691 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 1999 | 1950 | 1419 | 2568 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2000 | 1911 | 1383 | 2559 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2001 | 1822 | 1323 | 2393 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2002 | 1777 | 1311 | 2320 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2003 | 1726 | 1249 | 2223 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2004 | 1619 | 1199 | 2113 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2005 | 1435 | 1042 | 1902 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2006 | 1218 | 912  | 1608 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2007 | 1063 | 783  | 1372 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2008 | 952  | 696  | 1230 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2009 | 858  | 619  | 1134 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2010 | 780  | 582  | 1022 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2011 | 723  | 518  | 956  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2012 | 673  | 480  | 892  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2013 | 619  | 440  | 836  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2014 | 579  | 409  | 786  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2015 | 567  | 386  | 777  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2016 | 558  | 371  | 761  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2017 | 524  | 360  | 726  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2018 | 496  | 332  | 700  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2019 | 474  | 314  | 686  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2020 | 461  | 299  | 681  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2021 | 451  | 287  | 677  |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1990 | 0,88 | 0,60 | 1,21 |

|        |       |        |                  |              |         |        |      |         |         |         |
|--------|-------|--------|------------------|--------------|---------|--------|------|---------|---------|---------|
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1991 | 0,83    | 0,59    | 1,13    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1992 | 0,78    | 0,56    | 1,05    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1993 | 0,72    | 0,51    | 0,95    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1994 | 0,65    | 0,46    | 0,87    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1995 | 0,58    | 0,41    | 0,79    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1996 | 0,52    | 0,37    | 0,71    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1997 | 0,47    | 0,34    | 0,62    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1998 | 0,42    | 0,30    | 0,55    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1999 | 0,39    | 0,28    | 0,51    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2000 | 0,37    | 0,26    | 0,49    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2001 | 0,34    | 0,25    | 0,45    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2002 | 0,32    | 0,24    | 0,42    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2003 | 0,30    | 0,22    | 0,39    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2004 | 0,27    | 0,20    | 0,36    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2005 | 0,24    | 0,17    | 0,31    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2006 | 0,19    | 0,14    | 0,25    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2007 | 0,16    | 0,12    | 0,21    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2008 | 0,14    | 0,10    | 0,18    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2009 | 0,12    | 0,09    | 0,16    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2010 | 0,11    | 0,08    | 0,14    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2011 | 0,09    | 0,07    | 0,13    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2012 | 0,09    | 0,06    | 0,11    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2013 | 0,08    | 0,05    | 0,10    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2014 | 0,07    | 0,05    | 0,09    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2015 | 0,06    | 0,04    | 0,09    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2016 | 0,06    | 0,04    | 0,08    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2017 | 0,06    | 0,04    | 0,08    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2018 | 0,05    | 0,03    | 0,07    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2019 | 0,05    | 0,03    | 0,07    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2020 | 0,04    | 0,03    | 0,06    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2021 | 0,04    | 0,03    | 0,06    |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 1990 | 1411709 | 998625  | 1832715 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 1991 | 1388864 | 1029579 | 1785780 |

|       |       |      |                  |              |         |        |      |         |         |         |
|-------|-------|------|------------------|--------------|---------|--------|------|---------|---------|---------|
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 1992 | 1341195 | 1008215 | 1744031 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 1993 | 1280338 | 1000040 | 1623663 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 1994 | 1215835 | 957920  | 1522589 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 1995 | 1159412 | 926336  | 1448601 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 1996 | 1102759 | 875121  | 1353613 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 1997 | 1041265 | 825378  | 1296404 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 1998 | 993298  | 788027  | 1239026 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 1999 | 961276  | 767176  | 1176563 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2000 | 946124  | 749282  | 1167594 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2001 | 918052  | 733977  | 1149559 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2002 | 904297  | 716590  | 1118074 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2003 | 891637  | 692984  | 1103097 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2004 | 870099  | 681595  | 1066826 |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2005 | 814084  | 650451  | 993679  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2006 | 737569  | 588346  | 879025  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2007 | 687233  | 542679  | 823603  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2008 | 653893  | 520361  | 793849  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2009 | 614318  | 497398  | 755630  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2010 | 578833  | 454926  | 708809  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2011 | 553683  | 439523  | 683978  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2012 | 530277  | 409538  | 654184  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2013 | 500844  | 393901  | 613154  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2014 | 478684  | 369224  | 612074  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2015 | 467339  | 369336  | 591234  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2016 | 456665  | 349829  | 581425  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2017 | 436330  | 327754  | 577777  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2018 | 418586  | 311503  | 549749  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2019 | 404318  | 288817  | 553098  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2020 | 394280  | 283478  | 540510  |
| DALYs | China | Male | All ages         | Tuberculosis | Smoking | Number | 2021 | 383792  | 276095  | 540736  |
| DALYs | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1990 | 295,59  | 209,51  | 384,54  |
| DALYs | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1991 | 283,16  | 210,06  | 363,03  |
| DALYs | China | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 1992 | 266,18  | 199,85  | 349,26  |

|       |       |        |                  |              |         |        |      |        |        |        |
|-------|-------|--------|------------------|--------------|---------|--------|------|--------|--------|--------|
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 1993 | 247,34 | 192,15 | 314,35 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 1994 | 228,34 | 180,29 | 286,90 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 1995 | 211,96 | 168,18 | 265,50 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 1996 | 196,13 | 154,40 | 241,20 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 1997 | 180,35 | 142,31 | 223,79 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 1998 | 167,51 | 133,07 | 209,07 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 1999 | 157,83 | 125,68 | 193,95 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2000 | 151,59 | 119,73 | 188,64 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2001 | 143,66 | 114,45 | 179,87 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2002 | 137,95 | 109,09 | 170,67 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2003 | 132,82 | 102,98 | 164,96 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2004 | 126,52 | 98,83  | 155,15 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2005 | 115,94 | 92,34  | 141,26 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2006 | 101,86 | 81,02  | 121,75 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2007 | 92,44  | 72,71  | 111,46 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2008 | 85,81  | 68,33  | 104,42 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2009 | 78,79  | 63,89  | 97,12  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2010 | 72,64  | 57,04  | 89,21  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2011 | 67,92  | 53,98  | 83,92  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2012 | 63,57  | 49,22  | 78,50  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2013 | 58,77  | 46,25  | 72,00  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2014 | 54,88  | 42,29  | 70,37  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2015 | 52,38  | 41,48  | 66,08  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2016 | 49,97  | 38,36  | 63,28  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2017 | 46,64  | 35,20  | 61,40  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2018 | 43,71  | 32,66  | 57,26  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2019 | 41,18  | 29,79  | 56,17  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2020 | 39,23  | 28,24  | 53,75  |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2021 | 37,39  | 26,91  | 52,70  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 1990 | 101107 | 71639  | 139432 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 1991 | 98555  | 70998  | 134942 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 1992 | 94710  | 68219  | 129579 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 1993 | 89666  | 64247  | 119623 |

|       |       |        |                  |              |         |        |      |       |       |        |
|-------|-------|--------|------------------|--------------|---------|--------|------|-------|-------|--------|
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 1994 | 84206 | 59984 | 113352 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 1995 | 78323 | 56760 | 104918 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 1996 | 72624 | 53867 | 98388  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 1997 | 66814 | 48851 | 89082  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 1998 | 62370 | 45852 | 83137  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 1999 | 59380 | 43692 | 78791  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2000 | 57435 | 42200 | 76078  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2001 | 54833 | 40219 | 72121  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2002 | 53228 | 39472 | 69082  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2003 | 51389 | 37082 | 66711  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2004 | 48459 | 36131 | 64554  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2005 | 43434 | 31180 | 57200  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2006 | 38073 | 28379 | 50679  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2007 | 34155 | 24793 | 44300  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2008 | 31208 | 22814 | 41032  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2009 | 28620 | 20600 | 38464  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2010 | 26404 | 19119 | 34580  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2011 | 24701 | 18145 | 32538  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2012 | 23097 | 16523 | 30068  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2013 | 21301 | 15154 | 28672  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2014 | 19935 | 14335 | 27234  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2015 | 19357 | 13220 | 26624  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2016 | 18955 | 12851 | 26280  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2017 | 17895 | 12366 | 24295  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2018 | 17008 | 11555 | 23384  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2019 | 16325 | 11025 | 22766  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2020 | 15811 | 10316 | 22208  |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2021 | 15326 | 10255 | 22686  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1990 | 22,71 | 16,10 | 31,50  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1991 | 21,60 | 15,52 | 29,51  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1992 | 20,25 | 14,64 | 27,86  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1993 | 18,69 | 13,54 | 24,96  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 1994 | 17,07 | 12,24 | 22,93  |

|       |       |        |                  |              |         |      |      |       |       |       |
|-------|-------|--------|------------------|--------------|---------|------|------|-------|-------|-------|
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 1995 | 15,43 | 11,18 | 20,39 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 1996 | 13,91 | 10,32 | 18,70 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 1997 | 12,44 | 9,13  | 16,57 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 1998 | 11,27 | 8,28  | 14,93 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 1999 | 10,43 | 7,72  | 13,81 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2000 | 9,86  | 7,23  | 13,06 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2001 | 9,16  | 6,73  | 12,07 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2002 | 8,66  | 6,38  | 11,20 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2003 | 8,13  | 5,91  | 10,49 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2004 | 7,42  | 5,51  | 9,85  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2005 | 6,46  | 4,67  | 8,52  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2006 | 5,47  | 4,08  | 7,28  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2007 | 4,74  | 3,47  | 6,16  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2008 | 4,21  | 3,08  | 5,49  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2009 | 3,75  | 2,71  | 5,05  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2010 | 3,38  | 2,44  | 4,42  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2011 | 3,07  | 2,26  | 4,01  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2012 | 2,80  | 1,99  | 3,65  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2013 | 2,51  | 1,78  | 3,38  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2014 | 2,28  | 1,63  | 3,12  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2015 | 2,15  | 1,47  | 2,93  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2016 | 2,04  | 1,38  | 2,82  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2017 | 1,87  | 1,30  | 2,54  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2018 | 1,73  | 1,16  | 2,37  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2019 | 1,61  | 1,08  | 2,23  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2020 | 1,51  | 1,00  | 2,12  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate | 2021 | 1,43  | 0,96  | 2,10  |

TB, tuberculosis; DALYs, disability adjusted life years; ASRs, age-standardized rates; CI, confidence interval.

**S8. Projected numbers of deaths and DALYs and their ASRs due to smoking-attributable TB in China, 2022-2040.**

| measure | location | sex  | age              | cause        | rei     | metric | year | pred val | pred low | pred up |
|---------|----------|------|------------------|--------------|---------|--------|------|----------|----------|---------|
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2022 | 10243    | 9259     | 11227   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2023 | 9991     | 8708     | 11274   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2024 | 9755     | 8039     | 11470   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2025 | 9533     | 7294     | 11773   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2026 | 9328     | 6498     | 12158   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2027 | 9138     | 5661     | 12614   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2028 | 8970     | 4793     | 13148   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2029 | 8830     | 3893     | 13768   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2030 | 8715     | 2952     | 14478   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2031 | 8623     | 1958     | 15287   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2032 | 8554     | 897      | 16210   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2033 | 8514     | 0        | 17278   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2034 | 8509     | 0        | 18532   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2035 | 8539     | 0        | 20011   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2036 | 8607     | 0        | 21769   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2037 | 8714     | 0        | 23873   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2038 | 8869     | 0        | 26434   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2039 | 9081     | 0        | 29596   |
| Deaths  | China    | Male | All ages         | Tuberculosis | Smoking | Number | 2040 | 9357     | 0        | 33535   |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2022 | 0,99     | 0,94     | 1,04    |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2023 | 0,94     | 0,85     | 1,04    |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2024 | 0,90     | 0,76     | 1,04    |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2025 | 0,85     | 0,67     | 1,04    |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2026 | 0,81     | 0,58     | 1,05    |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2027 | 0,78     | 0,49     | 1,06    |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2028 | 0,74     | 0,41     | 1,07    |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2029 | 0,71     | 0,33     | 1,08    |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2030 | 0,67     | 0,25     | 1,09    |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2031 | 0,64     | 0,18     | 1,11    |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2032 | 0,61     | 0,11     | 1,12    |
| Deaths  | China    | Male | Age-standardized | Tuberculosis | Smoking | Rate   | 2033 | 0,58     | 0,04     | 1,13    |

|        |       |        |                  |              |         |        |      |      |       |      |
|--------|-------|--------|------------------|--------------|---------|--------|------|------|-------|------|
| Deaths | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2034 | 0,56 | -0,03 | 1,14 |
| Deaths | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2035 | 0,53 | -0,09 | 1,15 |
| Deaths | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2036 | 0,51 | -0,14 | 1,16 |
| Deaths | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2037 | 0,49 | -0,20 | 1,17 |
| Deaths | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2038 | 0,47 | -0,25 | 1,18 |
| Deaths | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2039 | 0,44 | -0,29 | 1,18 |
| Deaths | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2040 | 0,43 | -0,34 | 1,19 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2022 | 430  | 273   | 587  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2023 | 415  | 250   | 580  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2024 | 401  | 223   | 581  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2025 | 389  | 191   | 587  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2026 | 378  | 157   | 600  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2027 | 368  | 120   | 619  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2028 | 360  | 79    | 643  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2029 | 353  | 37    | 675  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2030 | 349  | 0     | 715  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2031 | 346  | 0     | 765  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2032 | 345  | 0     | 828  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2033 | 347  | 0     | 907  |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2034 | 351  | 0     | 1009 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2035 | 359  | 0     | 1141 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2036 | 370  | 0     | 1313 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2037 | 384  | 0     | 1538 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2038 | 403  | 0     | 1840 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2039 | 427  | 0     | 2251 |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2040 | 458  | 0     | 2819 |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2022 | 0,04 | 0,03  | 0,04 |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2023 | 0,04 | 0,03  | 0,04 |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2024 | 0,03 | 0,02  | 0,04 |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2025 | 0,03 | 0,02  | 0,04 |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2026 | 0,03 | 0,02  | 0,04 |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2027 | 0,03 | 0,01  | 0,04 |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2028 | 0,03 | 0,01  | 0,04 |

|        |       |        |                  |              |         |        |      |        |        |        |
|--------|-------|--------|------------------|--------------|---------|--------|------|--------|--------|--------|
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2029 | 0,02   | 0,01   | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2030 | 0,02   | 0,00   | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2031 | 0,02   | 0,00   | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2032 | 0,02   | 0,00   | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2033 | 0,02   | -0,01  | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2034 | 0,02   | -0,01  | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2035 | 0,02   | -0,01  | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2036 | 0,02   | -0,01  | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2037 | 0,01   | -0,01  | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2038 | 0,01   | -0,01  | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2039 | 0,01   | -0,02  | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2040 | 0,01   | -0,02  | 0,04   |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2022 | 368971 | 326117 | 411826 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2023 | 356995 | 307896 | 406094 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2024 | 345368 | 286285 | 404452 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2025 | 334154 | 262322 | 405987 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2026 | 323422 | 236924 | 409921 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2027 | 313235 | 210695 | 415775 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2028 | 303704 | 184044 | 423363 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2029 | 294860 | 157135 | 432586 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2030 | 286668 | 129960 | 443376 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2031 | 279120 | 102436 | 455804 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2032 | 272222 | 74405  | 470038 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2033 | 266072 | 45664  | 486481 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2034 | 260721 | 15989  | 505558 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2035 | 256122 | 0      | 527624 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2036 | 252251 | 0      | 553174 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2037 | 249098 | 0      | 582848 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2038 | 246724 | 0      | 617612 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2039 | 245214 | 0      | 658738 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2040 | 244618 | 0      | 707722 |
| DALYs  | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2022 | 35,01  | 32,95  | 37,07  |
| DALYs  | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2023 | 33,31  | 30,21  | 36,42  |

|       |       |        |                  |              |         |        |      |       |       |       |
|-------|-------|--------|------------------|--------------|---------|--------|------|-------|-------|-------|
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2024 | 31,70 | 27,36 | 36,04 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2025 | 30,18 | 24,52 | 35,84 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2026 | 28,74 | 21,73 | 35,75 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2027 | 27,37 | 19,01 | 35,74 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2028 | 26,08 | 16,38 | 35,78 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2029 | 24,86 | 13,85 | 35,86 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2030 | 23,69 | 11,43 | 35,96 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2031 | 22,60 | 9,12  | 36,07 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2032 | 21,55 | 6,93  | 36,18 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2033 | 20,57 | 4,84  | 36,29 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2034 | 19,63 | 2,87  | 36,39 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2035 | 18,74 | 1,00  | 36,48 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2036 | 17,90 | -0,75 | 36,55 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2037 | 17,10 | -2,41 | 36,60 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2038 | 16,34 | -3,97 | 36,64 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2039 | 15,61 | -5,42 | 36,65 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2040 | 14,92 | -6,79 | 36,64 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2022 | 14648 | 11923 | 17373 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2023 | 14115 | 11162 | 17069 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2024 | 13609 | 10265 | 16952 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2025 | 13127 | 9261  | 16994 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2026 | 12672 | 8180  | 17163 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2027 | 12243 | 7049  | 17437 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2028 | 11846 | 5885  | 17808 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2029 | 11485 | 4694  | 18275 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2030 | 11159 | 3475  | 18843 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2031 | 10870 | 2218  | 19521 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2032 | 10618 | 914   | 20328 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2033 | 10409 | 0     | 21298 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2034 | 10247 | 0     | 22467 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2035 | 10127 | 0     | 23869 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2036 | 10049 | 0     | 25553 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2037 | 10012 | 0     | 27585 |

|       |       |        |                  |              |         |        |      |       |       |       |
|-------|-------|--------|------------------|--------------|---------|--------|------|-------|-------|-------|
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2038 | 10021 | 0     | 30062 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2039 | 10083 | 0     | 33118 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2040 | 10203 | 0     | 36923 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2022 | 1,32  | 1,21  | 1,43  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2023 | 1,24  | 1,09  | 1,40  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2024 | 1,17  | 0,96  | 1,38  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2025 | 1,11  | 0,84  | 1,37  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2026 | 1,04  | 0,72  | 1,36  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2027 | 0,98  | 0,61  | 1,36  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2028 | 0,93  | 0,50  | 1,36  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2029 | 0,88  | 0,40  | 1,36  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2030 | 0,83  | 0,31  | 1,36  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2031 | 0,79  | 0,22  | 1,36  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2032 | 0,74  | 0,13  | 1,36  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2033 | 0,71  | 0,05  | 1,36  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2034 | 0,67  | -0,02 | 1,36  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2035 | 0,63  | -0,09 | 1,35  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2036 | 0,60  | -0,15 | 1,35  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2037 | 0,57  | -0,21 | 1,35  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2038 | 0,54  | -0,26 | 1,35  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2039 | 0,51  | -0,32 | 1,34  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2040 | 0,49  | -0,36 | 1,34  |

TB, tuberculosis; DALYs, disability adjusted life years; ASRs, age-standardized rates; CI, confidence interval.

**S9. Sensitivity analysis (Nordpred) of projected numbers of deaths and DALYs and their ASRs due to smoking-attributable TB in China, 2022-2040.**

| measure | location | sex    | age              | cause        | rei     | metric | year | case  |
|---------|----------|--------|------------------|--------------|---------|--------|------|-------|
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2022 | 10013 |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2023 | 9552  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2024 | 9059  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2025 | 8918  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2026 | 8762  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2027 | 8588  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2028 | 8398  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2029 | 8193  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2030 | 8234  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2031 | 8266  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2032 | 8285  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2033 | 8293  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2034 | 8292  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2035 | 8501  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2036 | 8707  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2037 | 8906  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2038 | 9100  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2039 | 9290  |
| Deaths  | China    | Male   | All ages         | Tuberculosis | Smoking | Number | 2040 | 9472  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2022 | 0,96  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2023 | 0,89  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2024 | 0,83  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2025 | 0,79  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2026 | 0,76  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2027 | 0,73  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2028 | 0,70  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2029 | 0,67  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2030 | 0,66  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2031 | 0,64  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2032 | 0,63  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2033 | 0,62  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2034 | 0,61  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2035 | 0,62  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2036 | 0,62  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2037 | 0,63  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2038 | 0,63  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2039 | 0,64  |
| Deaths  | China    | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2040 | 0,64  |
| Deaths  | China    | Female | All ages         | Tuberculosis | Smoking | Number | 2022 | 425   |
| Deaths  | China    | Female | All ages         | Tuberculosis | Smoking | Number | 2023 | 402   |
| Deaths  | China    | Female | All ages         | Tuberculosis | Smoking | Number | 2024 | 376   |
| Deaths  | China    | Female | All ages         | Tuberculosis | Smoking | Number | 2025 | 372   |
| Deaths  | China    | Female | All ages         | Tuberculosis | Smoking | Number | 2026 | 367   |
| Deaths  | China    | Female | All ages         | Tuberculosis | Smoking | Number | 2027 | 361   |
| Deaths  | China    | Female | All ages         | Tuberculosis | Smoking | Number | 2028 | 354   |
| Deaths  | China    | Female | All ages         | Tuberculosis | Smoking | Number | 2029 | 346   |
| Deaths  | China    | Female | All ages         | Tuberculosis | Smoking | Number | 2030 | 353   |

|        |       |        |                  |              |         |        |      |        |
|--------|-------|--------|------------------|--------------|---------|--------|------|--------|
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2031 | 359    |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2032 | 365    |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2033 | 371    |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2034 | 376    |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2035 | 395    |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2036 | 415    |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2037 | 435    |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2038 | 454    |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2039 | 474    |
| Deaths | China | Female | All ages         | Tuberculosis | Smoking | Number | 2040 | 493    |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2022 | 0,04   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2023 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2024 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2025 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2026 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2027 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2028 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2029 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2030 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2031 | 0,02   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2032 | 0,02   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2033 | 0,02   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2034 | 0,02   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2035 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2036 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2037 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2038 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2039 | 0,03   |
| Deaths | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2040 | 0,03   |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2022 | 368019 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2023 | 350502 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2024 | 331895 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2025 | 323395 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2026 | 314396 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2027 | 304892 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2028 | 294915 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2029 | 284444 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2030 | 281007 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2031 | 277299 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2032 | 273252 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2033 | 268914 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2034 | 264308 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2035 | 265213 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2036 | 265896 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2037 | 266249 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2038 | 266258 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2039 | 265968 |
| DALYs  | China | Male   | All ages         | Tuberculosis | Smoking | Number | 2040 | 265348 |
| DALYs  | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2022 | 34,82  |
| DALYs  | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2023 | 32,60  |

|       |       |        |                  |              |         |        |      |       |
|-------|-------|--------|------------------|--------------|---------|--------|------|-------|
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2024 | 30,37 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2025 | 29,13 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2026 | 27,88 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2027 | 26,64 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2028 | 25,40 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2029 | 24,15 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2030 | 23,54 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2031 | 22,93 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2032 | 22,32 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2033 | 21,71 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2034 | 21,10 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2035 | 20,96 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2036 | 20,81 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2037 | 20,66 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2038 | 20,52 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2039 | 20,37 |
| DALYs | China | Male   | Age-standardized | Tuberculosis | Smoking | Rate   | 2040 | 20,22 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2022 | 14599 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2023 | 13769 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2024 | 12871 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2025 | 12583 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2026 | 12268 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2027 | 11923 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2028 | 11549 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2029 | 11146 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2030 | 11131 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2031 | 11103 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2032 | 11060 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2033 | 11002 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2034 | 10930 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2035 | 11204 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2036 | 11476 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2037 | 11741 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2038 | 11998 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2039 | 12246 |
| DALYs | China | Female | All ages         | Tuberculosis | Smoking | Number | 2040 | 12480 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2022 | 1,31  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2023 | 1,21  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2024 | 1,11  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2025 | 1,06  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2026 | 1,01  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2027 | 0,97  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2028 | 0,92  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2029 | 0,87  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2030 | 0,85  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2031 | 0,84  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2032 | 0,82  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2033 | 0,81  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2034 | 0,79  |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking | Rate   | 2035 | 0,80  |

|       |       |        |                  |              |              |      |      |
|-------|-------|--------|------------------|--------------|--------------|------|------|
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking Rate | 2036 | 0,81 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking Rate | 2037 | 0,82 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking Rate | 2038 | 0,83 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking Rate | 2039 | 0,84 |
| DALYs | China | Female | Age-standardized | Tuberculosis | Smoking Rate | 2040 | 0,85 |

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TB, tuberculosis; DALYs, disability adjusted life years; ASRs, age-standardized rates.

**S10. Decomposition analysis of the contribution of population aging, population growth and epidemiological changes to smoking-attributable TB deaths and DALYs in China, 1990-2021.**

| measure | location | sex    | cause        | rei     | Overll difference     | Aging              | Population         | Epidemiological change |
|---------|----------|--------|--------------|---------|-----------------------|--------------------|--------------------|------------------------|
| Deaths  | China    | Both   | Tuberculosis | Smoking | -33311.20 (-75.44%)   | 9446.43 (21.39%)   | 24118.95 (54.62%)  | -66876.58 (-151.45%)   |
| Deaths  | China    | Male   | Tuberculosis | Smoking | -30294.29 (-74.45%)   | 9551.73 (23.48%)   | 21313.84 (52.38%)  | -61159.86 (-150.31%)   |
| Deaths  | China    | Female | Tuberculosis | Smoking | -3016.90 (-87.00%)    | 986.14 (28.44%)    | 1970.48 (56.83%)   | -5973.52 (-172.27%)    |
| DALYs   | China    | Both   | Tuberculosis | Smoking | -1113698.64 (-73.62%) | 184364.63 (12.19%) | 806010.68 (53.28%) | -2104073.95 (-139.08%) |
| DALYs   | China    | Male   | Tuberculosis | Smoking | -1027917.39 (-72.81%) | 185527.58 (13.14%) | 717982.76 (50.86%) | -1931427.73 (-136.81%) |
| DALYs   | China    | Female | Tuberculosis | Smoking | -85781.25 (-84.84%)   | 17955.55 (17.76%)  | 55563.38 (54.95%)  | -159300.18 (-157.56%)  |

TB, tuberculosis; DALYs, disability adjusted life years.