**Supplement: Table S4.** Association (hazard ratios) of aggregated measurements of socioeconomic status with survival after lung cancer. 1unless otherwise noted, fully adjusted model; 2according to correspondence with author; 3upper limit of the confidence interval is 0.995; 4approximated from figure in paper;5derived from log scale; CD = Census collection district; CI = Confidence interval; CSS = Cause-specific survival; HR = Hazard ratio; NSCLC = Non-small cell lung cancer; RS =Relative survival; SEIFA = Socioeconomic indexes for areas; SES = Socioeconomic status; SLA = Statistical local area

| **Paper****Country****SES level** | **Level** | **Hazard Ratio (95 % Confidence Interval)1** |
| --- | --- | --- |
| **Education** |  |  |
| **USA** |
| Johnson 2014 [88]USACensus tract | Q4 (low)Q3Q2Q1 (high) | All-causesurvival:Stage I and II Stage III**1.36 (1.24-1.50) 1.13 (1.02-1.25)****1.17 (1.07-1.29) 1.12 (1.02-1.23)****1.18 (1.08-1.29) 1.17 (1.07-1.28)**1.00 1.00 |
| Johnson 2016 [89]USACensus tract | Q4 (low)Q3Q2Q1 (high) | All-causesurvival:**1.30 (1.16-1.46)****1.13 (1.01-1.26)****1.12 (1.01-1.24)**1.00 |
| Khullar 2015 [90]USAZip code | No high school≥29 %20-28.9 %14-19.9 %<14 % | All-causesurvival:**1.11 (1.06-1.16)****1.06 (1.02-1.09)****1.05 (1.02-1.08)**1.00 |
| **Income** |  |  |
| Europe |
| Berglund 2012 [64]EnglandLower super output area | Q5 (low)Q4Q3Q2Q1 (high) | All-cause survival:Early-stage NSCLC Stage III disease Advanced disease/SCLC1.24 (0.98-1.56) **1.16 (1.01-1.34) 1.12 (1.05-1.20)**1.15 (0.91-1.46) 1.15 (1.00-1.32) **1.16 (1.08-1.25)**1.18 (0.93-1.51) 1.14 (0.99-1.32) **1.13 (1.05-1.22)**1.09 (0.85-1.40) **1.20 (1.03-1.39) 1.17 (1.08-1.26)**1.00 1.00 1.00Trend p = 0.11 p = 0.70 p = 0.17  |
| Canada/USA |
| Mackillop 1997 [95]CanadaPostal code | <$20000 $20000-$30000$30000-$40000$40000-$50000>$50000p Trend | Cause-specific survival:**1.13 (1.06-1.22)****1.14 (1.08-1.21)****1.14 (1.08-1.22)****1.10 (1.03-1.17)**1.00**1.10 (1.07-1.14)** |
| Booth 2010 [66]CanadaCommunity | Q1 (low)Q2Q3Q4Q5 (high) | All-cause survival:**1.09 (1.02-1.16)**1.05 (0.98-1.12)1.03 (0.96-1.10)0.98 (0.91-1.05)1.00  |
| Dabbikeh 2017 [73]CanadaEnumeration/dissemination area | Constant dollar (per $10000) | All-cause survival:1.00 (p = 0.60) |
| Boyd 1999 [67]Canada/USAUSA: census tractCanada: enumeration area | Q5 (low)Q4Q3Q2Q1 (high) | Cause-specific survival:Canada USA**1.04 (1.01-1.08) 1.13 (1.10-1.16)**1.04 (1.00-1.07) **1.05 (1.02-1.08)**1.01 (0.98-1.05) 1.00 (ref)0.98 (0.94-1.02) **0.95 (0.93-0.98)****0.93 (0.89-0.98) 0.93 (0.90-0.96)**p < 0.0001 |
| Zhang-Salomons 2006 [43]Canada/USACensus tract | Income (quintiles)Q1 (low)Q5 (high)Poverty (quintiles)Q1 (high)Q5 (low)Poverty (tertile)T1 (high)T3 (low) | Cause-specific survival:Canada USA**1.13 1.39**1.00 1.001.07 **1.38**1.00 1.001.05 **1.29**1.00 1.00 |
| Khullar 2015 [90]USAZip code | <$30000 $30000-$34999$35000-45999$46000+  | All-causesurvival:**1.08 (1.03-1.13)****1.07 (1.03-1.11)****1.05 (1.02-1.09)**1.00 |
| McMillan 2017 [96]USAZip code | <$63000 ≥$63000 Unknown | All-causesurvival:1.00**0.94 (0.89-0.99)****1.74 (1.53-1.98)** |
| Greenwald 1994 [34]USACensus tract | Model 2(only census tract)Median incomeModel 3(both individual and census tract)Individual incomeMedian income | All-causesurvival:0.87 (0.65-1.15) per US$5000 increment**0.82 (0.71-0.95)** per US$5000 increment1.01 (0.77-1.32) |
| Greenwald 1998 [80]USACensus tract | Median income | All-causesurvival:HR = **0.98 (p < 0.0003)** per decile increase |
| Johnson 2014 [88]USACensus tract | Q4 (low)Q3Q2Q1 (high) | All-causesurvival:Stage I and II Stage III1.03 (0.94-1.12) **1.12 (1.03-1.23)**1.06 (0.97-1.15) **1.10 (1.01-1.20)**1.08 (1.00-1.17) 1.08 (0.99-1.18)1.00 1.00(patients who died within 2 weeks of diagnosis excluded, n = 1889) |
| Johnson 2016 [89]USACensus tract | Q4 (low)Q3Q2Q1 (high) | All-causesurvival:1.06 (0.94-1.18)1.05 (0.96-1.15)1.04 (0.96-1.13)1.00 |
| Niu 2010 [98]USACensus tract | Poverty level≥20 %10-20 %5-10 %<5 % | Cause-specific survival:Men Women**1.23 (1.15-1.31) 1.18 (1.09-1.28)** **1.09 (1.04-1.14) 1.12 (1.06-1.18)**1.05 (1.00-1.09) 1.04 (0.99-1.09)1.00 1.00 |
| Shugarman 2008 [109]USACensus tract | <$29 000$29 000-41 000>$41 000 | All-causesurvival:1.000.980.95p < 0.05 |
| Tannenbaum 2014 [112]USACensus tract | LowMiddle-lowMiddle-highHigh | All-causesurvival:1.00**0.96 (0.94-0.99)****0.92 (0.89-0.94)****0.87 (0.84-0.91)** |
| Yang 2010 [117]USACensus tract | Poverty level≥15 %10-15 %5-10 %<5 % | All-causesurvival:**1.05 (1.02-1.09)**1.03 (1.00-1.06)1.01 (0.98-1.03)1.00 |
| Wang 2017a [114]USACounty | PovertyMedium-high Low | Cause-specific survival:**1.06 (1.06-1.07)**1.00 |
| Wang 2017b [115]USACounty | PovertyMedium-high Low | Cause-specific survival:**1.07 (1.06-1.08)**1.00 |
| Australia |
| Bonett 1984 [65]AustraliaCollection district |  | No difference in CSS by income (results not shown in article) |
| **Index** |  |  |
| Europe |
| Chouaid 2017 [70]FranceCommune | Q1 (low)Q2Q3Q4 (high)Q1 (low)Q2Q3Q4 (high) | 1-year all-cause survival Non-Metastatic Metastaticdisease disease**1.25 (1.16-1.35) 1.19 (1.13-1.26)****1.19 (1.10-1.29) 1.13 (1.07-1.20)****1.14 (1.05-1.24) 1.11 (1.04-1.18)**1.00 1.002-year all-cause survival Non-Metastatic Metastaticdisease disease**1.21 (1.13-1.30) 1.19 (1.13-1.25)****1.15 (1.08-1.23) 1.14 (1.08-1.20)****1.10 (1.03-1.18) 1.10 (1.04-1.16)**1.00 1.00 |
| Aarts 2015 [63]The NetherlandsPostal code | LowIntermediateHighInstitutionalizedUnknown | All-cause survival:1.000.90 (0.90-1.00)0.92 (0.85-0.99)21.00 (0.80-1.10)0.90 (0.70-1.00) |
| Louwman 2010 [94]The NetherlandsPostal code | Lowest SES Highest SES | All-cause survival:Men Women1.11 (1.0-1.2) 1.09 (1.0-1.2)1.00 1.00 |
| Schrijvers 1995a [106]The NetherlandsPostal code | Q5 (low)Q4Q3Q2Q1 (high)Trend | All-cause survival:**1.16 (1.03-1.31)****1.15 (1.02-1.30)**1.07 (0.94-1.21)1.02 (0.87-1.19)1.00**1.04 (1.01-1.07)** |
| Iyen-Omofoman 2011 [86]United KingdomOutput area | Q5 (low)Q4Q3Q2Q1 (high)Missing | All-cause survival, HR unadjusted1.01 (0.94-1.09)0.94 (0.88-1.01)1.03 (0.96-1.10)0.98 (0.91-1.05)1.00**0.78 (0.68-0.88)** |
| Schrijvers 1995b [107]EnglandEnumeration district | Q5 (low)Q4Q3Q2Q1 (high) | All-cause survival:1.11 (1.00-1.23)**1.13 (1.04-1.22)****1.09 (1.01-1.18)**1.04 (0.96-1.12)1.00 |
| Rich 2011 [105]EnglandLower super output area | Q5 (low)Q4Q3Q2Q1 (high) | All-cause survival:1.00 (0.95-1.06)1.03 (0.99-1.06)1.02 (0.99-1.05)1.03 (1.00-1.06)1.00 |
| Canada/USA |
| Dabbikeh 2017 [73]CanadaEnumeration/dissemination area | Q1 (low)Q2Q3Q4Q5 (high) | All-cause survival:1.00 (p = 0.80)0.97 (p = 0.19)0.99 (p = 0.70)0.97 (p = 0.23)1.00 |
| Gomez 2016 [79]USACensus block group | Q1 (low)Q2Q3Q4Q5 (high) | All-cause survival:Men Women1.16 (0.98-1.38) **1.38 (1.10-1.72)**1.12 (0.95-1.32) **1.22 (1.01-1.47)**1.11 (0.95-1.28) 1.18 (0.98-1.41)1.06 (0.93-1.22) 0.97 (0.82-1.15)1.00 1.00 |
| Hastert 2015 [82]USACensus block group | Q1 (low)Q2Q3Q4Q5 (high)Trend | Cause-specific survival:**2.21 (1.69-2.90)****2.00 (1.51-2.65)****1.64 (1.22-2.19)****1.62 (1.21-2.17)**1.00p<0.001 |
| Lara 2017 [92]USACensus block group | Low SES (Q1-Q3)High SES (Q4, Q5) | Cause-specific survival:**1.05 (1.02-1.09)**1.00 |
| Ou 2007 [5]USACensus block group | Q1 (low)Q2Q3Q4Q5 (high) | All-causesurvival:Stage IA Stage IB1.00 1.000.91 (0.81-1.03) **0.91 (0.82-1.003)****0.87 (0.78-0.98) 0.90 (0.81-0.98)****0.76 (0.68-0.86) 0.86 (0.78-0.94)****0.79 (0.70-0.89) 0.75 (0.68-0.82)**  |
| Ou 2008 [101]USACensus block group | Q1 (low)Q2Q3Q4Q5 (high) | All-causesurvival:1.00**0.91 (0.85-0.98)****0.90 (0.84-0.97)****0.83 (0.77-0.89)****0.78 (0.72-0.84)** |
| Ou 2009 [6]USACensus block group |  | All-causesurvival:**0.97** **( 0.94-0.99)** (increase per SES score)p (trend) = 0.01 |
| Lara 2014 [93]USACensus tract | Lowest SESMid SESHighest SES | Cause-specific survival:1.00**0.96 (0.94-0.98)** **0.90 (0.89-0.92)**  |
| Wen 20054 [116]USAZip code | Social index | Cause-specific survival:1.02 (0.94-1.10)5 |
| Australia/New Zealand |
| Hall 2004 [81]AustraliaCollection district | Q5 (low)Q4Q3Q2Q1 (high) | All-causesurvival:1.05 (0.93-1.20)1.03 (0.92-1.15)1.09 (0.98-1.20)1.03 (0.92-1.16)1.00 |
| Tervonen 2017 [22]AustraliaCollection district and Statistical local area | Q5 (low)Q4Q3Q2Q1 (high) | SHR (95 % CI) full model, all-causesurvivalSLA CD**1.14 (1.08-1.19) 1.21 (1.15-1.27)****1.15 (1.09-1.21) 1.13 (1.08-1.19)****1.13 (1.08-1.19) 1.10 (1.05-1.16)**1.06 (1.00-1.11) **1.06 (1.01-1.12)**1.00 1.00 |
| Currow 2014 [72]AustraliaPostal code area | Q5 (low)Q4Q3Q2Q1 (high) | SHR (CSS, 95 % CI) full model, all-causesurvival1.24 (0.97-1.59)1.19 (0.94-1.52)1.00 (0.79-1.27)1.02 (0.82-1.28)1.00 |
| Denton 2017 [74]AustraliaPostal code area | Q1 (low)Q2Q3Q4Q5 (high) | All-causesurvival:1.10 (0.89-1.30)1.00 (0.84-1.20)1.00 (0.83-1.20)1.00 (0.85-1.20)1.00 |
| Haynes 2008 [83]New ZealandCensus area unit | LowMediumHighHighest | All-causesurvival:1.001.06**1.11** (p<0.05)**1.21** (p<0.01) |
| Asia |
| Kwak 2017a [91]KoreaDong | Q4 (low)Q3Q2Q1 (high) | All-causesurvival:1.06 (0.87–1.30)1.18 (1.00–1.40)1.01 (0.87–1.17)1.00 |
| Kwak 2017b [37]KoreaDong | Q4 (low)Q3Q2Q1 (high) | Cause-specific survival:**1.08 (1.01-1.15)****1.11 (1.05-1.17)****1.08 (1.03-1.13)**1.00 |