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| **Table 1** | | | | | | | | | |
| **Summary Statistics for Full Sample and by BMI Classification** | | | | | | | | | |
|  |  | Full Sample | | Normal BMI | | Overweight BMI | | Obese BMI | |
| Variable | Description | Mean | St.Dev. | Mean | St.Dev. | Mean | St.Dev. | Mean | St.Dev. |
| Spell | Length of Unemployment Period in Weeks | 11.717 | 14.891 | 10.610 | 14.023 | 12.072 | 15.176 | 13.398 | 15.944 |
| BMI | Body Mass Index | 27.076 | 6.565 | 22.115 | 1.691 | 27.194 | 1.461 | 36.198 | 5.766 |
| Normal\* | =1 if BMI >= 18.5 and BMI < 25 | 0.473 | 0.499 |  |  |  |  |  |  |
| Overweight | =1 if BMI >=25 and BMI <30 | 0.274 | 0.446 |  |  |  |  |  |  |
| Obese | =1 if BMI >=30 | 0.254 | 0.435 |  |  |  |  |  |  |
| Age | Years of age | 22.751 | 3.549 | 22.000 | 3.390 | 23.129 | 3.512 | 23.742 | 3.573 |
| Female | =1 if Female | 0.487 | 0.500 | 0.490 | 0.500 | 0.411 | 0.492 | 0.566 | 0.496 |
| Male\* | =1 if Male | 0.513 | 0.500 | 0.510 | 0.500 | 0.589 | 0.492 | 0.434 | 0.496 |
| White\* | =1 if White | 0.456 | 0.498 | 0.509 | 0.500 | 0.443 | 0.497 | 0.373 | 0.484 |
| Black | =1 if Black | 0.351 | 0.477 | 0.320 | 0.466 | 0.357 | 0.479 | 0.402 | 0.490 |
| Hispanic | =1 if Hispanic | 0.193 | 0.394 | 0.171 | 0.377 | 0.200 | 0.400 | 0.224 | 0.417 |
| NeverMarried\* | =1 if Currently Married | 0.842 | 0.365 | 0.879 | 0.326 | 0.828 | 0.378 | 0.787 | 0.409 |
| Married | =1 if Never Married | 0.125 | 0.331 | 0.092 | 0.289 | 0.137 | 0.343 | 0.173 | 0.379 |
| Separated | =1 if Separated, Divorced, or Widowed | 0.033 | 0.179 | 0.029 | 0.167 | 0.036 | 0.185 | 0.039 | 0.194 |
| Child6 | =1 if Child aged 6 or less present in home | 0.442 | 0.779 | 0.372 | 0.742 | 0.440 | 0.753 | 0.574 | 0.854 |
| GFinc | Total Gross Family Income (IHS) | 10.475 | 2.452 | 10.554 | 2.353 | 10.450 | 2.551 | 10.353 | 2.515 |
| HH\_Size | Total size of household | 3.642 | 1.787 | 3.633 | 1.771 | 3.595 | 1.792 | 3.708 | 1.809 |
| LessHS\* | =1 if completed Less than High School | 0.217 | 0.412 | 0.221 | 0.415 | 0.199 | 0.399 | 0.228 | 0.420 |
| HS | =1 if completed High school or GED | 0.319 | 0.466 | 0.299 | 0.458 | 0.332 | 0.471 | 0.343 | 0.475 |
| SomeCol | =1 if enrolled or completed some college | 0.363 | 0.481 | 0.374 | 0.484 | 0.355 | 0.479 | 0.350 | 0.477 |
| CollegeGrad | =1 if completed a 2- or 4-year degree | 0.079 | 0.270 | 0.082 | 0.275 | 0.090 | 0.286 | 0.063 | 0.243 |
| CollegePlus | =1 if enrolled or completed graduate degree | 0.022 | 0.145 | 0.023 | 0.151 | 0.024 | 0.152 | 0.016 | 0.126 |
| Score | Percentile Rank on ASVAB Exam | 39.152 | 28.691 | 41.669 | 29.462 | 38.428 | 28.456 | 35.240 | 26.962 |
| Ten | Weeks worked in current Job | 23.784 | 54.429 | 21.689 | 50.945 | 25.195 | 57.417 | 26.165 | 57.196 |
| Exp | Cumulative total of weeks employed at time of unemployment spell | 191.856 | 152.048 | 169.662 | 142.130 | 203.462 | 154.780 | 220.698 | 160.528 |
| Good\* | =1 if Self-Reported Health as Good | 0.596 | 0.491 | 0.666 | 0.472 | 0.625 | 0.484 | 0.433 | 0.496 |
| Average | =1 if Self-Reported Health as Average | 0.297 | 0.457 | 0.257 | 0.437 | 0.285 | 0.451 | 0.382 | 0.486 |
| Poor | =1 if Self-Reported Health as Poor | 0.108 | 0.310 | 0.077 | 0.266 | 0.090 | 0.286 | 0.184 | 0.388 |
| West\* | West Region | 0.214 | 0.410 | 0.221 | 0.415 | 0.217 | 0.412 | 0.197 | 0.398 |
| NorCen | North Central Region (Midwest) | 0.219 | 0.414 | 0.222 | 0.416 | 0.231 | 0.421 | 0.202 | 0.402 |
| NorEst | Northeastern Region | 0.144 | 0.351 | 0.153 | 0.360 | 0.137 | 0.344 | 0.133 | 0.340 |
| South | South Region | 0.423 | 0.494 | 0.404 | 0.491 | 0.415 | 0.493 | 0.467 | 0.499 |
| Urate | Regional Unemployment Rate | 6.004 | 1.861 | 5.731 | 1.678 | 6.118 | 1.893 | 6.391 | 2.058 |
| SearchCT | Number of Methods Used for Job Search During Gap (1 - 12) | 3.125 | 1.900 | 3.013 | 1.818 | 3.181 | 1.921 | 3.274 | 2.009 |
| Unknown\* | =1 if Job ending cause unknown | 0.940 | 0.238 | 0.941 | 0.235 | 0.938 | 0.242 | 0.940 | 0.238 |
| Ended | =1 if Job ended due to firm circumstances | 0.025 | 0.157 | 0.025 | 0.156 | 0.027 | 0.162 | 0.024 | 0.153 |
| Forced | =1 if Job ended by being fired | 0.007 | 0.084 | 0.006 | 0.080 | 0.007 | 0.086 | 0.008 | 0.091 |
| Illness | =1 if Job ended voluntary | 0.001 | 0.030 | 0.001 | 0.023 | 0.001 | 0.034 | 0.001 | 0.038 |
| Quit | =1 if Job ended due to illness | 0.027 | 0.161 | 0.027 | 0.161 | 0.027 | 0.162 | 0.026 | 0.160 |
| Union | =1 if Job before gap had union | 0.019 | 0.137 | 0.015 | 0.123 | 0.023 | 0.148 | 0.022 | 0.147 |
| OCC | 2-digit 1990 Census Occupation Code Identifier (22 bins) | | | | | | | | |
| IND | 2002 Census Industrial Code Identifier (18 bins) | | | | | | | | |
| # of Unemployment Spells | | 16,210 | | 7,662 | | 4,438 | | 4,110 | |
| # of Unique Respondents | | 4,992 | | 2,961 | | 2,100 | | 1,468 | |
| Observations drawn from the NLSY97 for the years 1997 to 2011. Values of dummy variables not defined as =1 are assigned a value =0. Respondents may change BMI classification for different spells resulting in sub-sample respondents summing to more than full sample. Variables with asterisk indicate reference variables for dummy variables | | | | | | | | | |

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| **Table 2** | | | | |
| **Estimated Hazard Ratios with Current and Lagged BMI Classification with and with Frailty** | | | | |
|  | (1) | (2) | (3) | (4) |
| Overweight | -0.1161 \*\*\* | -0.1338 \*\*\* | -0.1538 \*\*\* | -0.1808 \*\*\* |
|  | (0.0189) | (0.0191) | (0.0231) | (0.023) |
| Obese | -0.2086 \*\*\* | -0.2108 \*\*\* | -0.2989 \*\*\* | -0.2981 \*\*\* |
|  | (0.0194) | (0.0198) | (0.0255) | (0.0258) |
| Variable Coef. Std. Dev. |  |  | 0.4519 | 0.4458 |
| Spells (Observations) | 16,210 | 15,800 | 16,210 | 15,800 |
| AIC | 281732.00 | 273790.50 | 280616.70 | 272736.00 |
| BIC | 281747.40 | 273805.80 | 293503.60 | 285107.30 |
| Log Likelihood | -140864.00 | -136893.20 | -138633.30 | -134754.60 |
| Significance Levels: ^=10%, \*=5%, \*\*=2.5%, \*\*\* 1%. Frailty modeled with Gaussian distribution and models estimated with *coxph* and *coxme* command in R. Standard errors in parathesis. Intercept SD indicates the standard deviation of the mixed effect constant terms estimated according to frailty across individual respondent (ID) and loglikelihood testing the significance of the random effects are all significant at the highest level. | | | | |

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| **Table 3** | | | | |
| **Estimated CPH Model with Frailty by Individual with Controls** | | | | |
|  | (1) | (2) | (3) | (4) |
| Overweight | -0.0482 \* | -0.046 \* | -0.0409 ^ | -0.0413 ^ |
| (0.0191) | (0.0228) | (0.0226) | (0.0226) |
| Obese | -0.1048 \*\*\* | -0.1266 \*\*\* | -0.1131 \*\*\* | -0.1061 \*\*\* |
| (0.0203) | (0.0257) | (0.0254) | (0.0253) |
| Female | 0.053 \*\* | 0.0732 \*\*\* | 0.0624 \*\* | 0.0654 \*\* |
| (0.0167) | (0.0219) | (0.0216) | (0.0221) |
| Age | -0.0675 \*\*\* | -0.0665 \*\*\* | -0.0413 \*\*\* | -0.045 \*\*\* |
| (0.0038) | (0.0044) | (0.0049) | (0.0049) |
| Black | -0.1572 \*\*\* | -0.203 \*\*\* | -0.1805 \*\*\* | -0.178 \*\*\* |
| (0.0211) | (0.0282) | (0.0279) | (0.0278) |
| Hispanic | -0.0106 | -0.014 | -0.02 | -0.0163 |
| (0.0232) | (0.0305) | (0.03) | (0.0299) |
| Married | 0.0554 \* | 0.0583 ^ | 0.0488 | 0.0504 ^ |
| (0.0259) | (0.0309) | (0.0306) | (0.0306) |
| Separated | -0.0545 | -0.0822 | -0.0516 | -0.0392 |
| (0.0456) | (0.0547) | (0.0544) | (0.0544) |
| Child6 | 0.0038 | 0.0098 | 0.0046 | 0.0058 |
| (0.0126) | (0.0148) | (0.0147) | (0.0147) |
| GFinc | 0.0103 \*\* | 0.0121 \*\* | 0.0128 \*\* | 0.0148 \*\*\* |
| (0.0034) | (0.0039) | (0.0039) | (0.0039) |
| HH\_Size | -0.0057 | -0.0094 | -0.0083 | -0.0108 ^ |
| (0.0053) | (0.0062) | (0.0062) | (0.0062) |
| HS | 0.0658 \*\* | 0.0869 \*\* | 0.0852 \*\* | 0.0963 \*\*\* |
| (0.0228) | (0.0285) | (0.0283) | (0.0282) |
| SomeCol | 0.169 \*\*\* | 0.1986 \*\*\* | 0.2018 \*\*\* | 0.2113 \*\*\* |
| (0.0248) | (0.0314) | (0.0311) | (0.031) |
| CollegeGrad | 0.1119 \*\* | 0.1106 \* | 0.1123 \* | 0.1413 \*\* |
| (0.0384) | (0.0465) | (0.0462) | (0.0467) |
| CollegePlus | 0.0117 | -0.0085 | 0.002 | -0.0034 |
| (0.0613) | (0.0727) | (0.0722) | (0.073) |
| Score | 0.0036 \*\*\* | 0.0043 \*\*\* | 0.0044 \*\*\* | 0.0043 \*\*\* |
| (0.0004) | (0.0005) | (0.0005) | (0.0005) |
| Tenure | -0.0012 \*\*\* | -0.0012 \*\*\* | -0.0013 \*\*\* | 0.0002 |
| (0.0002) | (0.0002) | (0.0002) | (0.0002) |
| Experience | 0.0004 \*\*\* | 0.0001 | 0.0003 \* | 0.0004 \*\*\* |
| (0.0001) | (0.0001) | (0.0001) | (0.0001) |
| AvgHealth | -0.0254 | -0.0154 | -0.0085 | -0.0087 |
| (0.0181) | (0.0209) | (0.0207) | (0.0207) |
| PoorHealth | -0.0335 | -0.0088 | 0.0025 | 0.0033 |
| (0.0268) | (0.0315) | (0.0313) | (0.0312) |
| NorthCentral | -0.0616 \* | -0.0611 ^ | -0.1006 \*\* | -0.1064 \*\*\* |
| (0.0251) | (0.0327) | (0.0324) | (0.0323) |
| NorthEast | -0.1228 \*\*\* | -0.1479 \*\*\* | -0.2209 \*\*\* | -0.2242 \*\*\* |
| (0.0274) | (0.0356) | (0.0356) | (0.0355) |
| South | -0.0258 | -0.0346 | -0.089 \*\* | -0.0933 \*\* |
| (0.0227) | (0.0295) | (0.0295) | (0.0294) |
| UnempRate |  |  | -0.0736 \*\*\* | -0.0756 \*\*\* |
|  |  | (0.0066) | (0.0066) |
| SearchCount |  |  | -0.0592 \*\*\* | -0.0566 \*\*\* |
|  |  | (0.0047) | (0.0047) |
| Forced |  |  | -0.478 \*\*\* | -0.2471 \* |
|  |  | (0.101) | (0.1036) |
| Ended |  |  | -0.4173 \*\*\* | -0.2032 \*\*\* |
|  |  | (0.0545) | (0.0582) |
| Illness |  |  | -0.0432 | 0.2144 |
|  |  | (0.2734) | (0.2753) |
| Quit |  |  | -0.3432 \*\*\* | -0.1222 \* |
|  |  | (0.0533) | (0.0565) |
| Union |  |  |  | 0.0194 |
|  |  |  | (0.0663) |
| Occupation Fixed Effects | No | No | No | Yes |
| Industry Fixed Effects | No | No | No | Yes |
| Variable Coef. Std. Dev. |  | 0.4013 | 0.3853 | 0.3777 |
| Significance Levels: ^=10%, \*=5%, \*\*=2.5%, \*\*\* 1%. Frailty modeled with Gaussian distribution and models estimated with *coxph* and *coxme* command in R. Standard errors in parathesis. Intercept SD indicates the standard deviation of the mixed effect constant terms estimated according to frailty across individual respondent (ID) and loglikelihood testing the significance of the random effects are all significant at the highest level. | | | | |

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| **Table 4** | | | | |
| **Estimates of CPH Sex Subsamples with Frailty Across Individuals and Full Controls** | | | | |
|  | Female Only | | Male Only | |
| Overweight | -0.0447 | -0.1255 \* | -0.031 | -0.0469 |
| (0.0342) | (0.0526) | (0.0305) | (0.0432) |
| Obese | -0.1295 \*\*\* | -0.1963 \*\*\* | -0.0709 ^ | -0.0434 |
| (0.0352) | (0.054) | (0.0372) | (0.0547) |
| Age | -0.0334 \*\*\* | -0.0342 \*\*\* | -0.0577 \*\*\* | -0.058 \*\*\* |
| (0.0071) | (0.0071) | (0.007) | (0.007) |
| Black | -0.2102 \*\*\* | -0.2856 \*\*\* | -0.1486 \*\*\* | -0.1564 \*\* |
| (0.0401) | (0.0525) | (0.0392) | (0.05) |
| Black X Overweight |  | 0.1669 \* |  | 0.0562 |
|  | (0.0764) |  | (0.0679) |
| Black X Obese |  | 0.1293 ^ |  | -0.0444 |
|  | (0.076) |  | (0.0821) |
| Hispanic | -0.0187 | -0.0646 | -0.017 | 0.0009 |
| (0.0435) | (0.0572) | (0.0417) | (0.0601) |
| Hispanic X Overweight |  | 0.0989 |  | -0.0124 |
|  | (0.092) |  | (0.0818) |
| Hispanic X Obese |  | 0.1017 |  | -0.0562 |
|  | (0.0919) |  | (0.0935) |
| Married | 0.0182 | 0.0188 | 0.0704 | 0.0711 |
| (0.0405) | (0.0405) | (0.0483) | (0.0483) |
| Separated | -0.1203 ^ | -0.1111 | 0.0397 | 0.0378 |
| (0.0698) | (0.0698) | (0.0894) | (0.0894) |
| Child6 | -0.0045 | -0.0024 | 0.0283 | 0.0285 |
| (0.0192) | (0.0192) | (0.0239) | (0.0239) |
| GFinc | 0.0276 \*\*\* | 0.0275 \*\*\* | 0.0051 | 0.0051 |
| (0.0061) | (0.0061) | (0.0051) | (0.0051) |
| HH\_Size | -0.0086 | -0.009 | -0.0174 \* | -0.0175 \* |
| (0.0088) | (0.0088) | (0.0088) | (0.0088) |
| HS | 0.0823 ^ | 0.0777 ^ | 0.1186 \*\* | 0.1178 \*\* |
| (0.0425) | (0.0425) | (0.0381) | (0.0381) |
| SomeCol | 0.1875 \*\*\* | 0.1835 \*\*\* | 0.2428 \*\*\* | 0.2415 \*\*\* |
| (0.0448) | (0.0448) | (0.0438) | (0.0438) |
| CollegeGrad | 0.1141 ^ | 0.1095 ^ | 0.1768 \*\* | 0.1776 \*\* |
| (0.0655) | (0.0655) | (0.068) | (0.068) |
| CollegePlus | -0.0932 | -0.1053 | 0.1232 | 0.125 |
| (0.0991) | (0.0992) | (0.1102) | (0.1103) |
| Score | 0.0049 \*\*\* | 0.0048 \*\*\* | 0.0038 \*\*\* | 0.0038 \*\*\* |
| (0.0007) | (0.0007) | (0.0006) | (0.0006) |
| Tenure | 0.0004 | 0.0004 | 0.0001 | 0.0001 |
| (0.0003) | (0.0003) | (0.0003) | (0.0003) |
| Experience | 0.0002 | 0.0002 | 0.0006 \*\*\* | 0.0006 \*\*\* |
| (0.0002) | (0.0002) | (0.0001) | (0.0001) |
| AvgHealth | 0.0024 | 0.0024 | -0.0127 | -0.0127 |
| (0.0292) | (0.0291) | (0.0297) | (0.0297) |
| PoorHealth | 0.0442 | 0.0423 | -0.0437 | -0.0434 |
| (0.043) | (0.043) | (0.046) | (0.0461) |
| NorthCentral | -0.0505 | -0.0514 | -0.1512 \*\*\* | -0.1509 \*\*\* |
| (0.0476) | (0.0475) | (0.0444) | (0.0444) |
| NorthEast | -0.1966 \*\*\* | -0.1963 \*\*\* | -0.2421 \*\*\* | -0.2424 \*\*\* |
| (0.0521) | (0.052) | (0.0489) | (0.0489) |
| South | -0.041 | -0.0416 | -0.1324 \*\* | -0.1322 \*\* |
| (0.0425) | (0.0425) | (0.0412) | (0.0412) |
| UnempRate | -0.0728 \*\*\* | -0.073 \*\*\* | -0.0806 \*\*\* | -0.0805 \*\*\* |
| (0.0096) | (0.0096) | (0.0091) | (0.0091) |
| SearchCount | -0.0629 \*\*\* | -0.0631 \*\*\* | -0.0508 \*\*\* | -0.0507 \*\*\* |
| (0.0069) | (0.0069) | (0.0065) | (0.0065) |
| Forced | 0.0122 | 0.023 | -0.4386 \*\* | -0.4314 \*\* |
| (0.1478) | (0.1478) | (0.1465) | (0.1466) |
| Ended | -0.1819 ^ | -0.1779 ^ | -0.2318 \*\* | -0.2305 \*\* |
| (0.0945) | (0.0944) | (0.0748) | (0.0748) |
| Illness | 0.1696 | 0.1619 | 0.1544 | 0.1533 |
| (0.4) | (0.3999) | (0.3876) | (0.3873) |
| Quit | -0.1442 ^ | -0.1406 | -0.112 | -0.111 |
| (0.0855) | (0.0854) | (0.0765) | (0.0765) |
| Union | 0.0574 | 0.0564 | -0.0032 | -0.0037 |
| (0.112) | (0.112) | (0.0829) | (0.0829) |
| Occupation Fixed Effects | Yes | Yes | Yes | Yes |
| Industry Fixed Effects | Yes | Yes | Yes | Yes |
| Variable Coef. Std. Dev. | 0.3805 | 0.378 | 0.3786 | 0.378 |
| Significance Levels: ^=10%, \*=5%, \*\*=2.5%, \*\*\* 1%. Frailty modeled with Gaussian distribution and models estimated with *coxph* and *coxme* command in R. Standard errors in parathesis. Intercept SD indicates the standard deviation of the mixed effect constant terms estimated according to frailty across individual respondent (ID) and loglikelihood testing the significance of the random effects are all significant at the highest level. | | | | |