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| **Supplemental Table. Results of Age-Stratified Cox Proportional Hazards Models Examining the Association of Categorized Medication Risk Score with Mortality among Ambulatory Patients in the United States, 2011-2017** |
| **Medication Risk Score** | **All Patients****HR (95% CI)** | **Ages <30 yearsa****HR (95% CI)** | **Ages 30-49 years****HR (95% CI)** | **Ages 50-64 years****HR (95% CI)** | **Ages ≥65 years****HR (95% CI)** |
| **Model 1**b |  |  |  |  |  |  |  |  |  |  |
| MRS (1 unit) | 1.05 | (1.04 – 1.05) | 1.09 | (1.05 – 1.14) | 1.12 | (1.10 – 1.14) | 1.08 | (1.08 – 1.09) | 1.05 | (1.05 – 1.06) |
| MRSc |  |  |  |  |  |  |  |  |  |  |
|  10-14 | 3.00 | (2.83 – 3.19) | 2.94 | (1.46 – 5.92) | 2.66 | (1.90 – 3.73) | 2.14 | (1.83 – 2.51) | 1.65 | (1.55 – 1.77) |
|  15-19 | 4.08 | (3.81 – 4.38) | 4.87 | (1.77 – 13.42) | 4.99 | (3.39 – 7.35) | 2.92 | (2.42 – 3.52) | 1.96 | (1.81 – 2.11) |
|  20-30 | 5.70 | (5.28 – 6.15) | -- | -- | 8.95 | (5.90 – 13.58) | 4.57 | (3.74 – 5.57) | 2.49 | (2.29 – 2.71) |
|  >30 | 7.65 | (6.32 – 9.26) | -- | -- | 11.72 | (2.90 – 47.39) | 4.86 | (2.73 – 8.63) | 3.20 | (2.61 – 3.92) |
| **Model 2d** |  |  |  |  |  |  |  |  |  |  |
| MRS (1 unit) | 1.06 | (1.06 – 1.06) | 1.08 | (1.03 – 1.13) | 1.11 | (1.09 – 1.12) | 1.07 | (1.06 – 1.08) | 1.04 | (1.04 – 1.04) |
| MRSc |  |  |  |  |  |  |  |  |  |  |
|  10-14 | 1.82 | (1.06 – 1.06) | 2.84 | (1.41 – 5.72) | 2.42 | (1.73 – 3.40) | 1.89 | (1.61 – 2.22) | 1.45 | (1.36 – 1.56) |
|  15-19 | 2.18 | (1.71 – 1.94) | 4.58 | (1.66 – 12.65) | 4.26 | (2.88 – 6.29) | 2.31 | (1.91 – 2.79) | 1.63 | (1.50 – 1.76) |
|  20-30 | 2.71 | (2.03 – 2.34) | -- | -- | 7.09 | (4.64 – 10.83) | 3.42 | (2.80 – 4.18) | 1.95 | (1.79 – 2.12) |
|  >30 | 3.32 | (2.51 – 2.93) | -- | -- | 9.58 | (2.37 – 38.79) | 3.62 | (2.04 – 6.44) | 2.60 | (2.11 – 3.19) |
| **Model 3e**  |  |  |  |  |  |  |  |  |  |  |
| MRS (1 unit) | 1.06 | (1.06 – 1.06) | 1.09 | (1.04 – 1.14) | 1.11 | (1.09 – 1.13) | 1.06 | (1.06 – 1.06) | 1.04 | (1.04 – 1.04) |
| MRSc |  |  |  |  |  |  |  |  |  |  |
|  10-14 | 1.81 | (1.70 – 1.93) | 3.05 | (1.51 – 6.16) | 2.47 | (1.76 – 3.47) | 1.87 | (1.59 – 2.19) | 1.44 | (1.34 – 1.54) |
|  15-19 | 2.15 | (2.01 – 2.31) | 4.93 | (1.78 – 13.65) | 4.58 | (3.10 – 6.77) | 2.31 | (1.91 – 2.79) | 1.59 | (1.47 – 1.72) |
|  20-30 | 2.67 | (2.47 – 2.88) | -- | -- | 7.81 | (5.11 – 11.93) | 3.43 | (2.80 – 4.20) | 1.90 | (1.74 – 2.07) |
|  >30 | 3.33 | (2.75 – 4.03) | -- | -- | 10.97 | (2.71 – 44.46) | 3.88 | (2.18 – 6.89) | 2.53 | (2.06 – 3.10) |
| **Model 4f** |  |  |  |  |  |  |  |  |  |  |
| MRS (1 unit) | 1.06 | (1.05 – 1.06) | 1.08 | (1.03 – 1.13) | 1.10 | (1.09 – 1.12) | 1.06 | (1.05 – 1.07 | 1.04 | (1.04 – 1.04) |
| MRSc |  |  |  |  |  |  |  |  |  |  |
|  10-14 | 1.77 | (10.7 – 1.89) | 2.82 | (1.40 – 5.71) | 2.23 | (1.59 – 3.13) | 1.76 | (1.50 – 2.07) | 1.43 | (1.33 – 1.53) |
|  15-19 | 2.11 | (1.96 – 2.27) | 4.64 | (1.67 – 12.85) | 4.10 | (2.77 – 6.06) | 2.14 | (1.77 – 2.59) | 1.58 | (1.46 – 1.71) |
|  20-30 | 2.58 | (2.38 – 2.79) | -- | -- | 6.91 | (4.51 – 10.60) | 3.14 | (2.56 – 3.86) | 1.87 | (1.71 – 2.03) |
|  >30 | 3.17 | (2.62 – 3.84) | -- | -- | 9.40 | (2.32 – 38.17) | 3.57 | (2.01 – 6.35) | 2.43 | (1.98 – 2.99) |
| **Model 5g** |  |  |  |  |  |  |  |  |  |  |
| MRS (1 unit) | 1.06 | (1.06 – 1.06) | 1.07 | (1.02 – 1.11) | 1.11 | (1.09 – 1.12) | 1.07 | (1.06 – 1.08) | 1.04 | (1.04 – 1.04) |
| MRSc |  |  |  |  |  |  |  |  |  |  |
|  10-14 | 1.82 |  | 2.31 | (1.03 – 5.20) | 2.15 | (1.47 – 3.15) | 1.79 | (1.50 – 2.14) | 1.52 | (1.41 – 1.64) |
|  15-19 | 2.25 | (1.70 – 1.95) | 4.61 | (1.63 – 13.02) | 3.80 | (2.42 – 5.95) | 2.25 | (1.82 – 2.78) | 1.75 | (1.61 – 1.91) |
|  20-30 | 2.77 | (2.08 – 2.43) | -- | -- | 6.27 | (3.81 – 10.33) | 3.52 | (2.81 – 4.40) | 2.05 | (1.87 – 2.26) |
|  >30 | 3.31 | (2.54 – 3.02) | -- | -- | 5.92 | (0.82 – 42.66) | 4.09 | (2.24 – 7.48) | 2.63 | (2.09 – 3.30) |
| Abbreviations: HR, hazard ratio; CI, confidence interval; MRS, medication risk score; BMI, body mass index.a Outcome of death was rare in the <30 years age group for MRS categories 20-30 (n=9) and >30 (n=0) and therefore could not be modelled; b Unadjusted; c Reference category is MRS <10; d Adjusted for Charlson-Deyo score; e Adjusted for Charlson-Deyo score and gender; f Adjusted for Charlson-Deyo score, gender, and race/ethnicity; g Adjusted for Charlson-Deyo score, gender, race/ethnicity, and BMI. |