eTable 8. Joinpoint results by ICD-10 opioid type for the black population, 1999-2015

# Black population by ICD0-10 type, 1999-2015

## Average APC

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Race | Outcome | Time period | Average APC (95% CI) | *P* value |
| Black | Heroin | 1999-2015 | 9.02 (6.83, 11.25) | < 0.001 |
| Black | Methadone | 1999-2015 | 6.21 (4.14, 8.33) | < 0.001 |
| Black | Natural | 1999-2015 | 8.16 (7.66, 8.67) | < 0.001 |
| Black | Other | 1999-2015 | -8.21 (-9.13, -7.29) | < 0.001 |
| Black | Synthetic | 1999-2015 | 15.36 (0.67, 32.18) | < .05 |

## Joinpoint Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Race | Outcome | Time period | APC (95% CI) | *P* value |
| Black | Heroin | 1999-2010 | -0.56 (-2.86, 1.79) | = 0.61 |
| Black | Heroin | 2010-2015 | 33.46 (26.90, 40.37) | < 0.001 |
| Black | Methadone | 1999-2006 | 21.81 (16.69, 27.14) | < 0.001 |
| Black | Methadone | 2006-2015 | -4.52 (-6.43, -2.56) | < 0.001 |
| Black | Natural | 1999-2015 | 8.16 (7.66, 8.67) | < 0.001 |
| Black | Other | 1999-2015 | -8.21 (-9.13, -7.29) | < 0.001 |
| Black | Synthetic | 1999-2013 | 6.09 (-5.68, 19.32) | = 0.29 |
| Black | Synthetic | 2013-2015 | 107.34 (-14.65, 403.72) | = 0.10 |

## Joinpoint Model Estimates

### Estimates

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Outcome | Year (95% CI) | Intercept (SE) | Intercept *P* Value | Slope (SE) | Slope *P* Value | Change in Slope (SE) | Slope Change *P* Value |
| Heroin | 1999 (Starting year) | 11.06 (21.51) | = 0.62 | -0.01 (0.01) | = 0.61 | NA | NA |
| Heroin | 2010 (2009, 2011) | -580.48 (46.59) | < 0.001 | 0.29 (0.02) | < 0.001 | 0.29 (0.03) | < 0.001 |
| Methadone | 1999 (Starting year) | -395.89 (39.43) | < 0.001 | 0.20 (0.02) | < 0.001 | NA | NA |
| Methadone | 2006 (2004, 2007) | 92.54 (18.71) | < 0.001 | -0.05 (0.01) | < 0.001 | -0.24 (0.02) | < 0.001 |
| Natural | 1999 (Starting year) | -157.40 (4.42) | < 0.001 | 0.08 (0.00) | < 0.001 | NA | NA |
| Other | 1999 (Starting year) | 172.09 (9.45) | < 0.001 | -0.09 (0.00) | < 0.001 | NA | NA |
| Synthetic | 1999 (Starting year) | -119.62 (108.31) | = 0.29 | 0.06 (0.05) | = 0.30 | NA | NA |
| Synthetic | 2013 (2010, 2013) | -1468.59 (820.77) | = 0.10 | 0.73 (0.41) | = 0.10 | 0.67 (0.41) | = 0.13 |

### Summary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Outcome | Obs. (N) | Parameters | Degrees of Freedom | Sum of squared errors | Mean squared error |
| Heroin | 17 | 4 | 13 | 45.26 | 3.48 |
| Methadone | 17 | 4 | 13 | 22.20 | 1.71 |
| Natural | 17 | 2 | 15 | 11.75 | 0.78 |
| Other | 17 | 2 | 15 | 53.40 | 3.56 |
| Synthetic | 17 | 4 | 13 | 589.09 | 45.31 |