eTable 5. Joinpoint results by broad opioid type, white population, 1979-2015

# eTable 5: Joinpoint results in white population by broad opioid type, 1979-2015

## Average APC

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Time period | Race | Outcome | Average APC (95% CI) | *P* value |
| 1979-2015 | White | Heroin | 11.86 (9.96, 13.80) | < 0.001 |
| 1979-2015 | White | Methadone | 1.68 (-0.46, 3.87) | = 0.12 |
| 1979-2015 | White | Non-heroin, non-methadone opioid | 9.33 (3.91, 15.04) | < .01 |

## Joinpoint Summary (Jump model)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Time period | Race | Outcome | APC (95% CI) | *P* value |
| 1979-1998 | White | Heroin | 11.49 (9.97, 13.05) | < 0.001 |
| 1998-2005 | White | Heroin | 0.55 (-4.64, 6.03) | = 0.83 |
| 2005-2010 | White | Heroin | 12.38 (3.20, 22.37) | < .01 |
| 2010-2015 | White | Heroin | 30.88 (26.32, 35.59) | < 0.001 |
| 1979-1988 | White | Methadone | -1.78 (-6.27, 2.93) | = 0.43 |
| 1988-1998 | White | Methadone | -9.20 (-14.53, -3.53) | < .01 |
| 1998-2003 | White | Methadone | 43.04 (37.05, 49.28) | < 0.001 |
| 2003-2006 | White | Methadone | 20.34 (11.60, 29.76) | < 0.001 |
| 2006-2011 | White | Methadone | -5.37 (-7.41, -3.28) | < 0.001 |
| 2011-2015 | White | Methadone | -8.19 (-10.57, -5.75) | < 0.001 |
| 1979-1990 | White | Non-heroin, non-methadone opioid | 7.54 (1.68, 13.75) | < .05 |
| 1990-1993 | White | Non-heroin, non-methadone opioid | 23.22 (-30.37, 118.07) | = 0.46 |
| 1993-2010 | White | Non-heroin, non-methadone opioid | 9.09 (7.88, 10.32) | < 0.001 |
| 2010-2013 | White | Non-heroin, non-methadone opioid | -1.03 (-17.17, 18.25) | = 0.91 |
| 2013-2015 | White | Non-heroin, non-methadone opioid | 18.38 (0.94, 38.84) | < .05 |

## Joinpoint Model Estimates

### Estimates

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Race | Outcome | Year (95% CI) | Intercept (SE) | Intercept *P* Value | Slope (SE) | Slope *P* Value | Change in Slope (SE) | Slope Change *P* Value |
| White | Heroin | 1979 (Starting year) | -217.34 (13.38) | < 0.001 | 0.11 (0.01) | < 0.001 | NA | NA |
| White | Heroin | 1998 (1994, 2003) | -10.95 (51.60) | = 0.83 | 0.01 (0.03) | = 0.83 | -0.10 (0.03) | < 0.001 |
| White | Heroin | 2005 (2000, 2010) | -233.86 (83.21) | < .01 | 0.12 (0.04) | < .01 | 0.11 (0.05) | < .05 |
| White | Heroin | 2010 (2008, 2013) | -540.15 (34.67) | < 0.001 | 0.27 (0.02) | < 0.001 | 0.15 (0.04) | < .01 |
| White | Methadone | 1979 (Starting year) | 32.54 (44.50) | = 0.47 | -0.02 (0.02) | = 0.43 | NA | NA |
| White | Methadone | 1988 (1981, 2000) | 188.61 (57.80) | < .01 | -0.10 (0.03) | < .01 | -0.08 (0.04) | < .05 |
| White | Methadone | 1998 (1984, 2004) | -719.31 (40.99) | < 0.001 | 0.36 (0.02) | < 0.001 | 0.45 (0.04) | < 0.001 |
| White | Methadone | 2003 (1995, 2007) | -373.23 (72.42) | < 0.001 | 0.19 (0.04) | < 0.001 | -0.17 (0.04) | < 0.001 |
| White | Methadone | 2006 (2001, 2010) | 108.82 (21.00) | < 0.001 | -0.06 (0.01) | < 0.001 | -0.24 (0.04) | < 0.001 |
| White | Methadone | 2011 (2005, 2013) | 169.73 (25.36) | < 0.001 | -0.09 (0.01) | < 0.001 | -0.03 (0.02) | = 0.08 |
| White | Non-heroin, non-methadone opioid | 1979 (Starting year) | -145.49 (53.82) | < .05 | 0.07 (0.03) | < .05 | NA | NA |
| White | Non-heroin, non-methadone opioid | 1990 (1981, 1992) | -416.28 (549.57) | = 0.46 | 0.21 (0.28) | = 0.46 | 0.14 (0.28) | = 0.63 |
| White | Non-heroin, non-methadone opioid | 1993 (1991, 2003) | -173.59 (10.80) | < 0.001 | 0.09 (0.01) | < 0.001 | -0.12 (0.28) | = 0.66 |
| White | Non-heroin, non-methadone opioid | 2010 (2007, 2010) | 22.21 (173.05) | = 0.90 | -0.01 (0.09) | = 0.91 | -0.10 (0.09) | = 0.27 |
| White | Non-heroin, non-methadone opioid | 2013 (2012, 2013) | -338.32 (155.22) | < .05 | 0.17 (0.08) | < .05 | 0.18 (0.12) | = 0.13 |

### Summary

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outcome | Race | Obs. (N) | Parameters | Degrees of Freedom | Sum of squared errors | Mean squared error |
| Heroin | White | 37 | 8 | 29 | 580.29124 | 20.010043 |
| Methadone | White | 37 | 12 | 25 | 80.12523 | 3.205009 |
| Non-heroin, non-methadone opioid | White | 37 | 10 | 27 | 246.14265 | 9.116394 |