**Appendix 1: Impact of Florida’s PDMP and Pill Mill Law on Monthly Outcomes at 18 Months of Follow-up.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Low-Risk Prescribers  N=36,939 | High-Risk Prescribers  N=1,526 | Subset of High-Risk Prescribers | | |
|  | High-Prescription  N=196 | | High-Patient  N=343 |
| Comparative Change in Levels |  |  |  |  | |
| Opioid Patients, N | -6062  (-14882,2758) | -2232  (-4831,367) | 206  (-329,741) | 312  (-532,1157) | |
| Opioid Prescriptions, % of all prescriptions | -0.17  (-0.47,0.12) | 0.08  (-0.37,0.53) | 0.42  (-0.72,1.57) | 0.34  (-0.56,1.23) | |
| Opioid Patients, % of all patients | -0.39  (-0.97,0.19) | 0.12  (-0.77,1.01) | 0.59  (-0.81,1.99) | 0.23  (-1.03,1.49) | |
| Morphine Equivalent Dose, mg | -0.08  (-2.41,2.26) | 0.22  (-1.17,1.62) | 0.29  (-1.07,1.65) | -1.22  (-2.51,0.07) | |
| Total Opioid Volume, kg | 0.48  (-5.90,6.86) | -1.79  (-10.35,6.77) | 0.44  (-1.67,2.55) | -0.30  (-4.15,3.56) | |
| Days’ Supply | -0.11  (-0.55,0.32) | 0.06  (-0.04,0.16) | -0.03  (-0.23,0.16) | 0.10  (-0.03,0.23) | |
| Opioid Prescriptions, N | -6977  (-16773,2819) | -1098  (-6302,4105) | 261  (-828,1351) | 479  (-1342,2299) | |
| Comparative Change in Monthly Trends |  |  |  |  | |
| Opioid Patients, N | 871\*\*  (49,1693) | -370  (-1047,307) | -49  (-99,1) | -140\*\*  (-220,-61) | |
| Opioid Prescriptions, % of all prescriptions | 0.00  (-0.02,0.03) | -0.02  (-0.07,0.02) | 0.04  (-0.07,0.15) | 0.08  (-0.00,0.16) | |
| Opioid Patients, % of all patients | 0.01  (-0.04,0.07) | -0.02  (-0.10,0.07) | 0.10  (-0.03,0.23) | 0.08  (-0.03,0.20) | |
| Morphine Equivalent Dose, mg | 0.02  (-0.25,0.28) | -0.55\*\*  (-0.69,-0.41) | -0.30\*\*  (-0.42,-0.17) | -0.70\*\*  (-0.82,-0.58) | |
| Total Opioid Volume, kg | 1.00\*\*  (0.40,1.60) | -2.89\*\*  (-3.69,-2.08) | -0.48\*\*  (-0.68,-0.28) | -1.57\*\*  (-1.93,-1.21) | |
| Days’ Supply | -0.05  (-0.10,0.00) | 0.00  (-0.00,0.01) | -0.05\*\*  (-0.07,-0.03) | -0.04\*\*  (-0.05,-0.02) | |
| Opioid Prescriptions, N | 885  (-35,1805) | -650\*\*  (-1139,-161) | -107\*  (-209,-4) | -283\*\*  (-454,-112) | |

\*P<0.05 \*\*P<0.01

Source: IMS Health Lifelink LRx Data, 2010-2012

**Appendix 2: Impact of Florida’s PDMP and Pill Mill Law on Monthly Outcomes at 6 Months of Follow-up.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Low-Risk Prescribers  N=36,939 | High-Risk Prescribers  N=1,526 | Subset of High-Risk Prescribers | | |
|  | High-Prescription  N=196 | | High-Patient  N=343 |
| Comparative Change in Levels |  |  |  |  | |
| Opioid Patients, N | -4344  (-13901,5213) | -2232  (-4831,367) | -447  (-1143,249) | -0.35  (-1.66,0.96) | |
| Opioid Prescriptions, % of all prescriptions | -0.04  (-0.28,0.19) | -0.05  (-0.49,0.39) | 0.68  (-0.23,1.59) | -5.00\*  (-9.60,-0.41) | |
| Opioid Patients, % of all patients | -0.19  (-0.47,0.09) | 0.20  (-0.14,0.53) | 1.10  (-0.27,2.47) | -0.07  (-0.23,0.08) | |
| Morphine Equivalent Dose, mg | 0.56\*\*  (0.29,0.82) | -0.49  (-1.29,0.31) | -0.61  (-1.52,0.30) | -1679  (-3551,193) | |
| Total Opioid Volume, kg | -0.12  (-7.57,7.33) | -8.64  (-18.63,1.34) | -1.99  (-4.16,0.18) | -799  (-1975,377) | |
| Days’ Supply | 0.01  (-0.27,0.28) | 0.08  (-0.01,0.17) | -0.15  (-0.35,0.05) | 0.36  (-0.37,1.09) | |
| Opioid Prescriptions, N | -4654  (-18402,9093) | -3899  (-9708,1911) | -917  (-2040,206) | 0.17  (-0.88,1.22) | |
| Comparative Change in Monthly Trends |  |  |  |  | |
| Opioid Patients, N | -327  (-2944,2289) | -370  (-1046,306) | 139  (-51,329) | 95  (-226,417) | |
| Opioid Prescriptions, % of all prescriptions | -0.03  (-0.09,0.04) | -0.15\*  (-0.27,-0.03) | -0.18  (-0.43,0.07) | 0.04  (-0.16,0.23) | |
| Opioid Patients, % of all patients | -0.04  (-0.10,0.03) | -0.24\*\*  (-0.32,-0.17) | 0.02  (-0.36,0.39) | -0.05  (-0.34,0.24) | |
| Morphine Equivalent Dose, mg | -0.15\*\*  (-0.21,-0.10) | -0.72\*\*  (-0.93,-0.50) | -0.27\*  (-0.52,-0.02) | -1.22\*\*  (-1.58,-0.86) | |
| Total Opioid Volume, kg | -0.94  (-2.98,1.10) | -4.63\*\*  (-7.23,-2.03) | -0.16  (-0.72,0.41) | -1.97\*\*  (-3.16,-0.77) | |
| Days’ Supply | -0.06  (-0.14,0.01) | 0.01  (-0.01,0.03) | 0.02  (-0.02,0.07) | 0.02  (-0.03,0.06) | |
| Opioid Prescriptions, N | -604  (-4369,3161) | -797  (-2311,716) | 90  (-202,382) | -112  (-600,376) | |

\*P<0.05 \*\*P<0.01

Source: IMS Health Lifelink LRx Data, 2010-2012

**Appendix 3: Changes in opioid concentration and high-risk status following policy implementation by thresholds in Florida**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Threshold to define High-Risk group | Being in High-Risk group in the post period | Concentration of total opioid volume among High-Risk group | | Concentration of opioid prescriptions among High-Risk group | |
| Pre | Post | Pre | Post |
| Top 1% | 77.97% | 35.03% | 35.14% | 15.74% | 16.59% |
| Top 3% | 82.92% | 56.50% | 57.09% | 30.60% | 31.91% |
| Top 5% | 83.09% | 66.59% | 67.30% | 39.99% | 41.36% |
| Top 10% | 83.24% | 78.42% | 78.81% | 53.85% | 54.99% |
| Top 20% | 85.31% | 88.37% | 88.39% | 69.91% | 70.45% |
| Top 25% | 86.04% | 90.79% | 90.67% | 75.13% | 75.43% |

Source: IMS Health Lifelink LRx Data, 2010-2012