**Supplemental Digital Content, Table 6. Summary of results from multilevel logistic regression model**

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| The OR of the provider type of the initial and refill PIM visits by NP practice authority type1 |
| Characteristic | Initial PIMNP vs. Physician, OR (95% CI) | Refill PIMNP vs. Physician, OR (95% CI) |
| 2016 only |  |  |
| NP regulation |  |  |
|  Restricted authority | 0.78 (0.76–0.80)\* | 0.48 (0.46–0.49)\* |
|  Conditional authority | 0.88 (0.80–0.96)\* | 0.52 (0.48–0.57)\* |
|  Full authority | 0.72 (0.67–0.79)\* | 0.53 (0.49–0.57)\* |
| 2018 only |  |  |
| NP regulation |  |  |
|  Restricted authority | 0.81 (0.78–0.83)\* | 0.48 (0.47–0.50)\* |
|  Conditional authority | 0.82 (0.78–0.87)\* | 0.55 (0.52–0.58)\* |
|  Full authority | 0.84 (0.78–0.90)\* | 0.56 (0.53–0.63)\* |
| 2016 and 2018, combined |  |  |
| NP regulation |  |  |
|  Restricted authority | 0.79 (0.78–0.81)\* | 0.48 (0.47–0.49)\* |
|  Conditional authority | 0.84 (0.80–0.88)\* | 0.54 (0.52–0.57)\* |
|  Full authority | 0.79 (0.75–0.83)\* | 0.55 (0.52–0.57)\* |

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| OR of NP practice authority type for initial and refill PIM visits by year of prescription and provider type1 |
| Characteristic | Initial PIM, OR (95% CI) |  | Refill PIM, OR (95% CI) |
|  | Physician visit | NP visit |  | Physician visit | NP visit |
| 2016 |  |  |  |  |  |
| NP regulation (states) |  |  |  |  |  |
|  Restricted authority | Ref | Ref |  | Ref | Ref |
|  Conditional authority | 0.90 (0.80–1.01) | 1.07 (0.90–1.27) |  | 0.81 (0.73–0.91)\* | 0.95 (0.75–1.19) |
|  Full authority | 0.84 (0.73–0.96)\* | 0.88 (0.72–1.09) |  | 0.75 (0.66–0.85)\* | 0.89 (0.68–1.16) |
| 2018 |  |  |  |  |  |
| NP regulation (states) |  |  |  |  |  |
|  Restricted authority | Ref | Ref |  | Ref | Ref |
|  Conditional authority | 0.89 (0.80–1.00)\* | 0.93 (0.81–1.06) |  | 0.82 (0.74–0.91)\* | 0.96 (0.78–1.17) |
|  Full authority | 0.85 (0.74–0.97)\* | 0.83 (0.69–0.98)\* |  | 0.77 (0.68–0.87)\* | 0.79 (0.61–1.02) |

\*p < 0.001.

1There was significant three-way interaction (provider type, year of prescription, NP regulation) for initial PIM (p = 0.015) and refill PIM (p < 0.001).

Note: CI = confidence interval; NP = nurse practitioner; OR = odds ratio; PIM = potentially inappropriate medication; Ref = reference group.