Supplemental Online Content

Wilson JD, Abebe KZ, Kraemer K, et al. Trajectories of opioid use following first opioid prescription in opioid-naive youths and young adults. *JAMA Netw Open.* 2021;4(4):e214552. doi:10.1001/jamanetworkopen.2021.4552

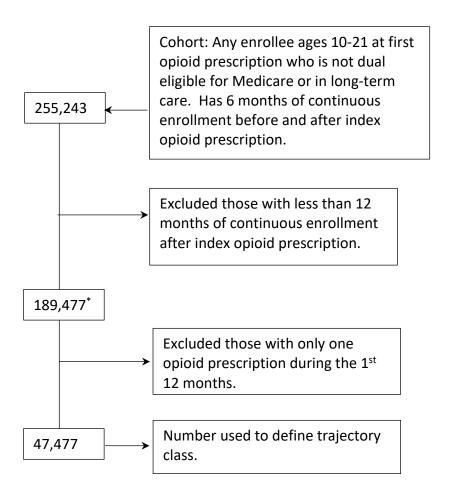
eFigure 1. Cohort Creation for Trajectory Models

eTable. ICD 9 and 10 Codes Used to Define Patient Comorbidities

eFigure 2. Four-Group Trajectory Model Showing Opioid Fills in 12 Months Following First Opioid Prescription

This supplemental material has been provided by the authors to give readers additional information about their work.

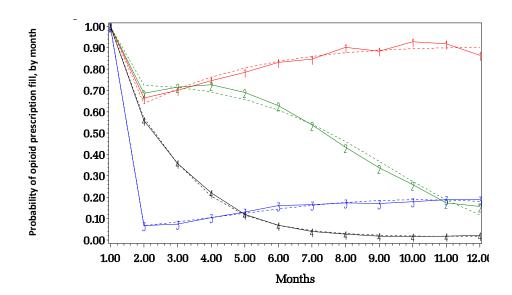
eFigure 1. Cohort Creation for Trajectory Models



^{*131,234} of these enrollees included in multinomial regression to calculate odds of trajectory membership or being in single prescription group. n=54391 excluded for missing provider specialty codes; 3852 excluded for missing other variables or covariates included in the regression.

eTable. ICD 9 and 10 Codes Used to Define Patient Comorbidities

Variable	Related major code groupings (included all related subcodes)
Depression	ICD 9: 296.20, 296.21, 296.22, 296.23, 296.24, 296.25, 296.26, 296.30, 296.31, 296.32, 296.33, 296.34, 296.35, 296.36, 300.4, 311 ICD 10: F32 and F33 and all subcodes
Anxiety	ICD 9: 300.02, 300.01, 300.3, 309.81, 308.3, 300.23, 300.2, 291.89, 292.89, 309.21, 300 ICD 10: F41, F43, F43.2, F48.8, F45, F93, F41.0, F41.1, F4.3, F41.8, F41.9
Attention Deficit Disorder	ICD 9: 314.00, 314.01, 314.8 ICD 10: 90.9, 90.2, 90.8, 90.1, 41.840
Substance use disorder	ICD9: 303, 303.9 [0-3] ,304.0[0-3], 304.1[0-3], 304.2[0-3], 304.3[0-3], 304.4[0-3], 304.5[0-3], 304.6[0-3], 304.9, 304.8, 305.0[0-3], 305.1[0-3], 305.2[0-3], 305.3[0-3], 305.4[0-3], 305.5[0-3], 305.6[0-3], 305.7[0-3], 305.9[0-3] ICD10: F10, F11, F12, F13, F14, F15, F16, F17, F18, F19 (and all subcodes)



eFigure 2. Four-Group Trajectory Model Showing Opioid Fills in 12 Months Following First Opioid Prescription.

Y-axis represents proportion of each trajectory group filling an opioid prescription for a given month, which is listed on x-axis. Month 1 is month of first opioid prescription. Dotted line represents estimated trajectory and solid line represents observed data. Color and number reflects group membership.

Four-group model: Group 1 "persistently high" = red, n= 780 (1.8%); Group 2 "lagged decrease" = green, n=1124 (2.7%); Group 3 "rapid decline", = blue, n=29,826 (63.2%); Group 4 "low" = black, n=15,744 (32.3%).

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