

Supplementary Online Content

Wachman EM, Hayes MJ, Brown MS, et al. Association of *OPRM1* and *COMT* single-nucleotide polymorphisms with hospital length of stay and treatment of neonatal abstinence syndrome. *JAMA*. doi: 10.1001/jama.2013.3411.

eTable 1. *COMT* 158A>G Additive Model

eTable 2. *ABCB1* SNPs Unadjusted Results

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

Supplementary eTables

eTABLE 1. COMT 158A>G Additive Model

NAS Outcome N (%) or Mean (95% CI)	AA (n=17)	AG (n=46)	GG (n=22)	P-Value	F-Value
LOS (d)	31.1 (23.7, 38.5)	19.8 (15.0, 24.6)	21.5 (14.0, 29.0)	0.05 ^a	3.02
Infant Treated	15 (88%)	25 (54%)	16 (73%)	0.04 ^b	N/A
≥2 Meds	10 (56%)	9 (20%)	3 (13%)	0.005 ^b	N/A
Max Daily Morphine (mg) (n=38)	2.10 (1.64, 2.56)	2.03 (1.86, 2.20)	1.42 (1.18, 1.66)	0.05 ^a	3.26
Max Daily Methadone (mg) (n=18)	1.78 (1.38, 2.18)	1.59 (1.39, 1.79)	1.48 (1.01, 1.95)	0.83 ^a	0.19
Max Score	13.6 (11.6, 15.6)	11.0 (10.0, 12.0)	11.0 (9.9, 12.1)	0.02 ^a	4.03

Abbreviations: Meds = Medications; Max = Maximum; LOS = length of hospitalization; NAS = neonatal abstinence syndrome; d = days; mg = milligrams

*P-values calculated using ANOVA^a and chi-square test of independence^b. F-Values calculated from ANOVA analyses.

eTABLE 2. ABCB1 SNPs Unadjusted Results

NAS Outcome N (%) or Mean (95% CI)	3435C>T CC (n=22) vs CT/TT (n=61)	P- Value	2677G/T/A GG (n=21) vs GT/TT (n=57)	P- Value	1236C>T CC (n=30) vs CT/TT (n=54)	P- Value
LOS (d)	22.7 (15.7, 29.8) vs 22.2 (17.9, 26.5)	0.90 ^a	28.1 (19.1, 37.1) vs 20.3 (16.4, 24.2)	0.09 ^a	26.2 (19.3, 33.1) vs 20.3 (16.2, 24.4)	0.14 ^a
Infant Treated	15 (68)% vs 39 (64)%	0.71 ^b	15 (71%) vs 36 (63%)	0.51 ^b	22 (73%) vs 33 (61%)	0.26 ^b
≥2 NAS Meds	4 (18%) vs 16 (26%)	0.45 ^b	5 (25%) vs 14 (25%)	0.97 ^b	6 (20%) vs 15 (28%)	0.43 ^b
Max Daily NMS (mg) (n= 38)	1.82 (1.55, 2.09) vs 1.86 (1.66, 2.06)	0.86 ^a	1.83 (1.53, 2.13) vs 1.92 (1.74, 2.10)	0.70 ^a	1.72 (1.49, 1.95) vs 1.94 (1.72, 2.16)	0.37 ^a
Max Daily Methadone (mg) (n= 18)	1.03 (0.86, 1.20) vs 1.75 (1.57, 1.93)	0.05 ^a	1.33 (1.03, 1.64) vs 1.70 (1.51, 1.89)	0.37 ^a	1.52 (1.25, 1.79) vs 1.68 (1.49, 1.87)	0.68 ^a
Max Score	11.8 (10.5, 13.1) vs 11.6 (10.7, 12.5)	0.79 ^a	11.9 (10.4, 13.4) vs 11.5 (10.6, 12.4)	0.64 ^a	11.9 (10.8, 13.0) vs 11.6 (10.6, 12.6)	0.90 ^a

Abbreviations: Meds = Medications; NMS = Neonatal Morphine Solution; Max = Maximum; LOS = length of hospitalization; NAS = neonatal abstinence syndrome; d = days; mg = milligrams

*P-Values calculated using two sample t-tests^a and chi-square test of independence^b