



Bup dosing notes

This guidance is for the ED. We advocate for continuation & initiation of bup in inpatient and outpatient settings. Algorithms vary based on clinical scenario.

- Any prescriber can order bup in the ED/hospital. X-waivers are only needed for discharge Rx.
- Either bup or bup/nx (buprenorphine/naloxone) SL films or tab are OK. If chronic pain, may split dose TID-QID.
- Bup monoprodut or bup/nx OK in pregnancy. See [Buprenorphine Quick Start in Pregnancy](#).
- Pause opioid pain relievers when starting Bup. OK to introduce opioid pain relievers after bup is started if patient has acute pain.

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PROVIDER RESOURCES

California Substance Use Line

CA Only (24/7)
1-844-326-2626

UCSF Substance Use Warmline

National (M-F 6am-5pm; Voicemail 24/7)
1-855-300-3595

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REFERENCES

- Ahmadi J, Jahromi MS, Ghahremani D, London ED. Single high-dose buprenorphine for opioid craving during withdrawal. *Trials*. 2018 Dec 10;19: 675. doi: 10.1186/s13063-018-3055-z
- Ang-Lee K, Oreskovich MR, Saxon AJ, et al. Single dose of 24 milligrams of buprenorphine for heroin detoxification: an open-label study of 5 inpatients. *J Psychoactive Drugs*. 2006 Dec;38(4): 505-512. doi: 10.1080/02791072.2006.10400589
- Bhatraju EP, Grossman E, Tofighi B, et al. Public sector low threshold office-based buprenorphine treatment: outcomes at year 7. *Addict Sci Clin Pract*. 2017;12: 7. doi:10.1186/s13722-017-0072-2
- D'Onofrio G, O'Connor PG, Pantalon MV, et al. Emergency department-initiated buprenorphine/naloxone treatment for opioid dependence: a randomized clinical trial. *JAMA*. 2015 Apr 28;313(16): 1636–1644. doi:10.1001/jama.2015.3474
- Greenwald MK, Comer SD, Fiellin DA. Buprenorphine maintenance and μ -opioid receptor availability in the treatment of opioid use disorder: implications for clinical use and policy. *Drug Alcohol Depend*. 2014 Nov 1;0: 1–11. doi:10.1016/j.drugalcdep.2014.07.035
- Herring AA, Perrone J, Nelson LS. Managing opioid withdrawal in the emergency department with buprenorphine. *Ann Emerg Med*. 2019;73(5): 481-487. doi: 10.1016/j.annemergmed.2018.11.032
- Herring AA, Vosooghi AA, Luftig J, et al. High-dose buprenorphine induction in the emergency department for treatment of opioid use disorder. *JAMA Netw Open*. 2021;4(7): e2117128. doi:10.1001/jamanetworkopen.2021.17128
- Hern GH, Lara V, Goldstein D, et al. Prehospital buprenorphine treatment for opioid use disorder by paramedics: first year results of the EMS buprenorphine use pilot. *Prehosp Emerg Care*, forthcoming. 2022. doi: 10.1080/10903127.2022.2061661
- Hopper JA, Wu J, Martus W, Pierre JD. A randomized trial of one-day vs three-day buprenorphine inpatient detoxification protocols for heroin dependence. *J Opioid Manag*. 2005 Mar-Apr;1(1): 31-35. doi: 10.5055/jom.2005.0009
- Kutz I, Reznik V. Rapid heroin detoxification using a single high dose of buprenorphine. *J Psychoactive Drugs*. 2001 Apr-Jun;33(2): 191-193. doi: 10.1080/02791072.2001.10400484
- Jacobs P, Ang A, Hillhouse MP, et al. Treatment outcomes in opioid dependent patients with different buprenorphine/naloxone induction dosing patterns and trajectories. *Am J Addict*. 2015 Oct;24(7): 667–675. doi:10.1111/ajad.12288
- Jones HE, Johnson RE, Lorraine Milio. Post-cesarean pain management of patients maintained on methadone or buprenorphine. *Am J Addict*. 2006 May-Jun;15(3)258-259. doi: 10.1080/10550490600626721
- Liebschutz JM, Crooks D, Herman D, et al. Buprenorphine treatment for hospitalized, opioid-dependent patients: a randomized clinical trial. *JAMA Intern Med*. 2014 Aug;174(8): 1369–1376. doi:10.1001/jamainternmed.2014.2556
- Committee opinion no. 711 summary: Opioid use and opioid use disorder in pregnancy. *Obstet Gynecol*. 2017;130(2):488-489. doi:10.1097/AOG.0000000000002229
- Meyer M, Wagner K, Benvenuto A, Plante D, Howard D. Intrapartum and postpartum analgesia for women maintained on methadone during pregnancy. *Obstet Gynecol*. 2007 Aug;110(2 Pt 1):261-266. https://doi.org/10.1097/01.AOG.0000275288.47258.e0
- Oreskovic MR, Saxon AJ, Ellis MLK, Malte CA, Roux JP, Knox PC. A double-blind, double-dummy, randomized, prospective pilot study of the partial mu opiate agonist, buprenorphine, for acute detoxification from heroin. *Drug Alcohol Depend*. 2005 Jan 7;77(1): 71-79. doi: 10.1016/j.drugalcdep.2004.07.008
- Walsh SL, Eissenberg, T. The clinical pharmacology of buprenorphine: Extrapolating from the laboratory to the clinic. *Drug and Alcohol Depend*. 2003 May 21;70(2 Suppl): S13-27. doi: 10.1016/s0376-8716(03)00056-5
- Walsh SL, Preston KL, Stitzer ML, Cone EJ, Bigelow GE. Clinical pharmacology of buprenorphine: ceiling effects at high doses. *Clin Pharmacol Ther*. 1994 May;55(5): 569-580. doi: 10.1038/clpt.1994.71

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REFERENCES: Buprenorphine (Bup) Emergency Department Quick Start

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