

Optimum Dosing OAT Treatment



Faculty/Presenter Disclosure

Faculty:

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Relationships with commercial interests:

Grants/Research Support: None

Speakers Bureau/Honoraria: None

Consulting Fees: None

Other: None

Disclosure of Commercial Support

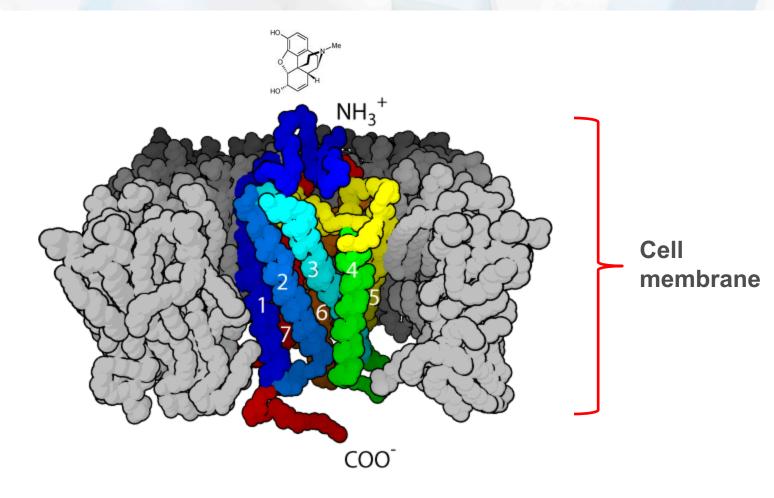
Disclosure of Conflict of Interest:

None

Learning Objectives

- 1. Brief on optimal dosing : OAT First line agents
- 2. Team 1 : START Bup-Nlx (Suboxone)
- 3. Team 2: South Team Methadone

Opioid Receptor



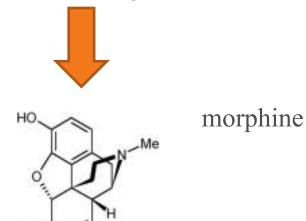
G protein coupled receptors (GPCRs), also known as seven-transmembrane domain receptor

Opioid Molecular Structure

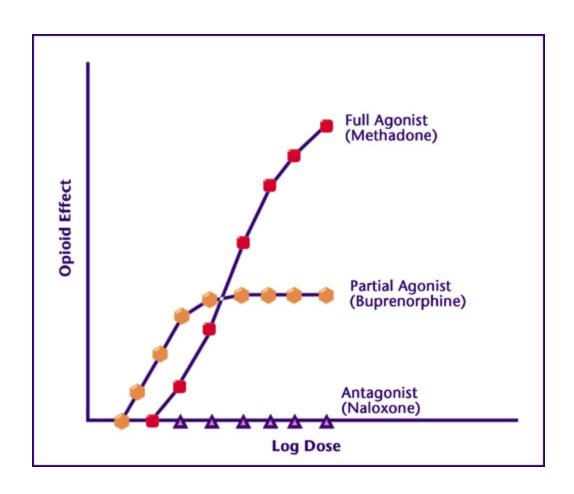
Synthetic opioid



Natural opiate

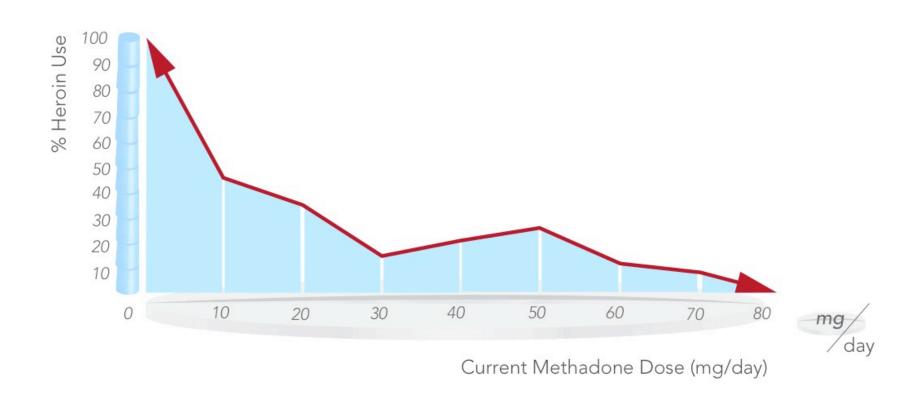


Opioid Effect



Conceptual Representation of Opioid Effect Versus Log Dose for Opioid Full Agonists, Partial Agonists, and Antagonists*

Heroin Use by Methadone Dose



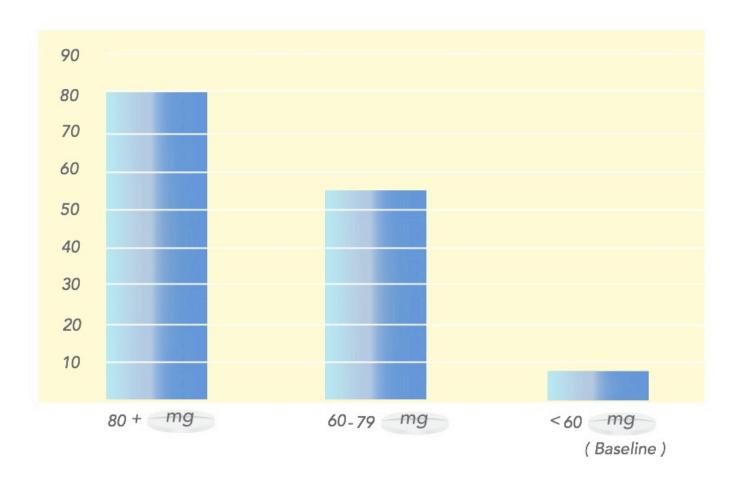
Payte & Ball (1988)

Retention

Intervention	1-Year*
Methadone	50-80%
Suboxone	40-50%
Naltrexone	10-20%
Naloxone	
Detox	5-20%

^{*1} Year Retention and/or reduction in use of opioids Kreek (1996, 2001)

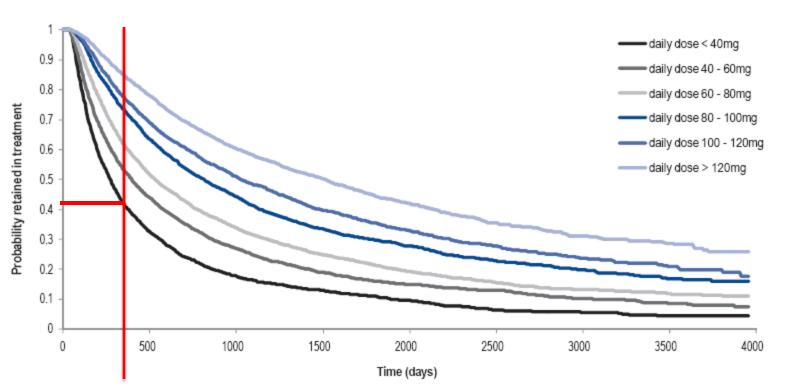
Methadone Retention in Treatment



Payte — Adapted from Caplehorn and Bell: The Medical Journal of Australia

Retention Data BC

Figure 9. Effect of Daily Dose on Methadone Maintenance Treatment Retention (Kaplan-Meier Curve)



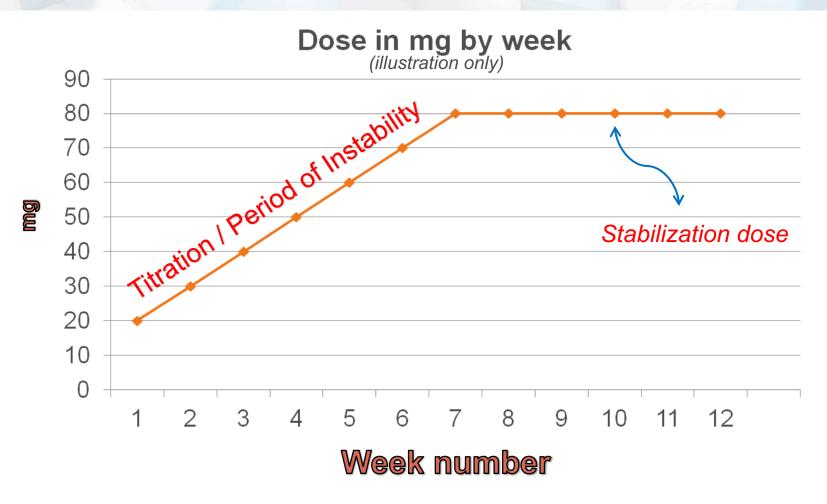
Noysk et al BC Methadone performance measures (2012) **Office of the Provincial Health Officer**

Review of 44 Methadone Programs

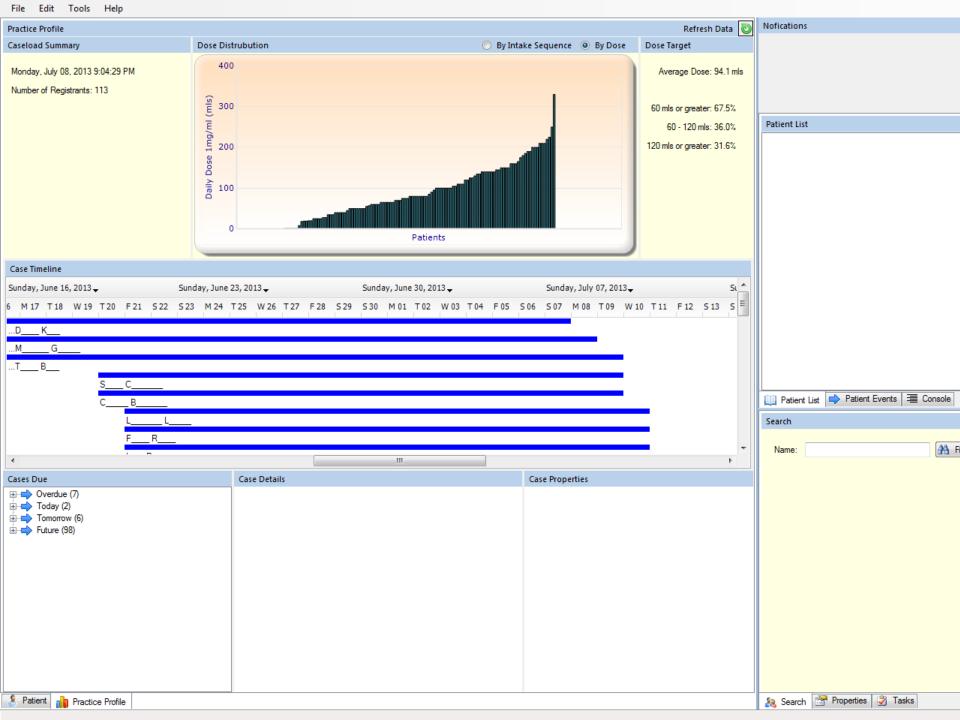
Dose of methadone single most important factor affecting retention in treatment

The higher the dose of methadone the longer patients remained in treatment

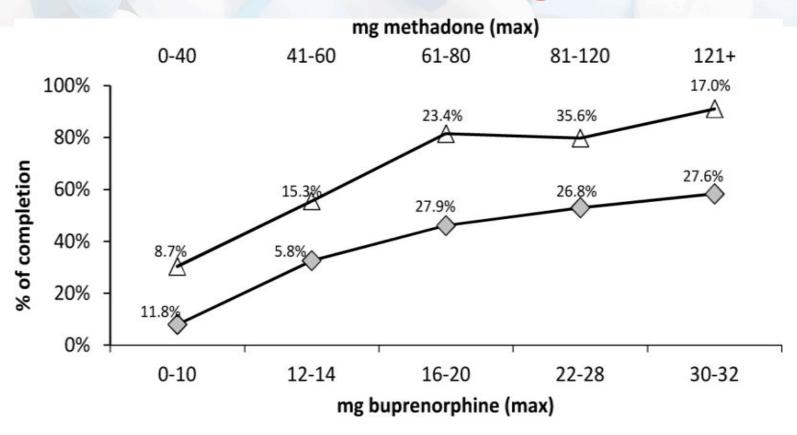
Methadone Initiation



Most patients will receive stability on maintenance doses of 60–120 mg daily. Methadone doses must always be individualized and based on clinical response.



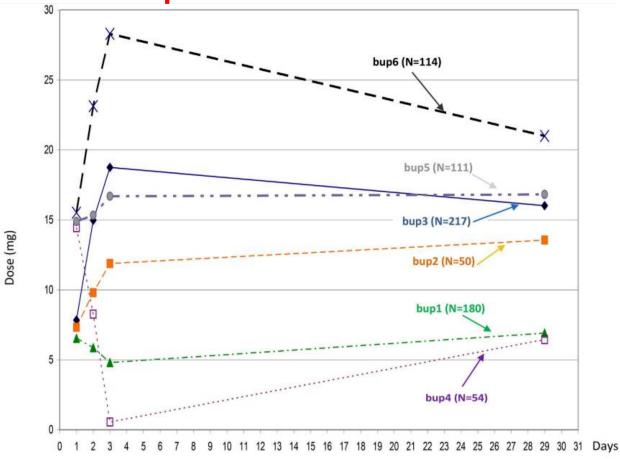
Completion / retention @ 24 weeks



- → Buprenorphine (% = % of buprenorphine participants prescribed in that dose range)
- → Methadone (% = % of methadone participants prescribed in that dose range)

Hser. Addiction (2014) Treatment retention among patients randomized to buprenorphine/naloxone compared to methadone in a multi-site trial

Different Bup-NIx Induction Patterns



Jacobs et al (2015) Am Journal Addiction

bup1: Started and remained on low* dose

bup2: Started on low, shifted gradually to moderate**dose

bup3: Started on low, shifted quickly to moderate dose

bup4: Started on moderate, shifted to low dose

bup5: Started and remained on moderate dose

bup6: Started on moderate, shifted to high*** dose

For the purpose of this study:

- Low BUP dose is ≤ 8 mg
- ** Moderate BUP dose is > 8 mg ≤ 24 mg
- *** High BUP dose > 24 mg

THANK YOU!

