Buprenorphine/Naloxone (BUP/NLX)

For the Treatment of Opioid Use Disorder (OUD)

Opioid Dependency Treatment (ODT) Intensity Continuum

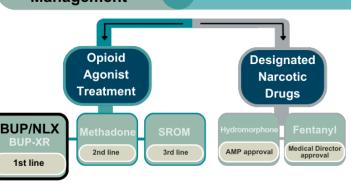
Lower Intensity

Higher Intensity

Withdrawal Management

Opioid Agonist Treatment (OAT)

Designated Narcotic Drugs (DND)



People may use different medications along the treatment continuum at various times depending on their preferences, comorbidities, treatment goals, efficacy of the medications, and life circumstances. Buprenorphine/naloxone (BUP/NLX) is one such treatment that can be used alone or in combination with other ODT medications. Health care providers and individuals need to work together to explore the available treatment options and determine the most suitable intervention based on the individual's unique needs. This personalized approach is essential for successful treatment outcomes, reducing the risk of unregulated opioid use, and mitigating any potential harm.

BUP/NLX, commonly referred to as Suboxone®, is the first line of treatment for individuals with opioid use disorder. BUP/NLX has a superior safety profile due to its ceiling effect for respiratory depression and fewer side effects and medication interactions

PHARMACODYNAMICS

BUP/NLX is a semi-synthetic opioid that works by partially activating the mu-opioid receptor. It has a strong affinity for the receptor, but its intrinsic activity (or the extent of its activation) is lower compared to other full opioids, BUP/NLX is composed of two medications, buprenorphine and naloxone, in a 4:1 ratio. When taken sublingually, buprenorphine has good bioavailability, while naloxone has poor bioavailability. The inclusion of naloxone is solely intended to discourage injection and insufflation. The partial agonism of BUP/NLX, combined with a slow dissociation, allows for a long-lasting effect that can relieve pain and/or withdrawal symptoms. This partial agonism also limits other pharmacologic effects, such as euphoria, drowsiness, respiratory depression, gastrointestinal issues, changes in circulation, constriction of the pupils, histamine release, and



Buprenorphine has a rapid onset of 30-60 minutes and plasma concentration levels peak after approximately 1 to 4 hours. Duration of action is dose dependent:

- Dose of 2-4mg/day: ~4 to 12 hours
- Dose of 4-8mg/day: ~24 hours
- Dose >8mg/day: ~36-72 hours

CONTRAINDICATIONS

- Hypersensitivity to buprenorphine or naloxone.
- Significant acute intoxication with a central nervous system depressant (an opioid, alcohol, benzodiazepine, etc.)

ADMINISTRATION

Buprenorphine/naloxone should be taken sublingually. The tablets should not be chewed or swallowed. While the medication is dissolving, advise individuals not to eat, drink or swallow Buprenorphine has poor gastrointestinal absorption and needs to be taken sublingually. If buprenorphine is taken orally, it has a low bioavailability because of a highfirst pass metabolism. Once individuals are stabilized on a therapeutic dose, they can take buprenorphine/naloxone in a single dose, once daily.

Suitable for immediate take-home doses, including take-home initiation when indicated, which may contribute to increased individual autonomy and cost savings.

Place medication under the tongue. The

medication needs to stay under the tongue until fully dissolved (this can take up to 30 min depending on dose) or it will not work



CAUTIONARY POPULATIONS

Moderate or Severe Hepatic Impairment: use with caution.

Geriatric: use with caution; Monitor for sedation and respiratory depression.



Prior to initiating BUP/NLX a urine drug screen (UDS) should be performed to confirm the presence of opioids.

⁺A UDS is not to be used punitively but to facilitate open communication. Treatment should not be delayed while UDS results are pending.

TRADITIONAL BUPRENORPHINE/NALOXONE INDUCTION

Day 1: Determine the TIME since the LAST opioid use

>12 hours since the last short acting opioid (e.g., hydromorphone)

>24 hours since the last intermediateacting opioid (e.g., SROM, fentanyl) Is the individual in withdrawal?

Individuals need to have a Clinical Opiate Withdrawal Scale (COWS) > 12 before starting

>72 hours since the last longacting opioid (e.g., methadone)

If COWS is <12, do not proceed with traditional BUP/NLX induction this into precipitated withdra sess in 1 hour.

with harm reduction resources and education, including a community based naloxone kit and informatio on where to access Supervised Consumption Services



tab) sublingually

BUP/NLX 2 mg/0.5 mg SL (1



tab) sublingually

If symptoms worsen, the individual may be experiencing precipitated withdrawal.

Reassess COWS after 1 hour, if there are no signs of precipitated ithdrawal, give:

If the is sufficient time

since LAST opioid use

and COWS is > 12, give



If all withdrawal symptoms are relieved. Continue to Day 2

If withdrawal symptoms persist, continue to take BUP/NLX 2 mg/0.5 mg SL (1 tab) sublingually each hour, until a maximum dose of 16mg/4mg (8 tabs) is reached, or sedation occurs

Day 2:

The total therapeutic dose administered on Day 1 is the starting dose on Day 2



If all withdrawal symptoms are relieved. This is your dose.

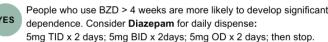


If withdrawal symptoms persist, continue to take buprenorphine/ naloxone 2 mg/0.5 mg SL (1 tab) sublingually each hour, until withdrawal symptoms are relieved to a maximum dose of 32mg/8mg (16 tabs) is reached, or sedation occurs. The total therapeutic dose of BUP/NLX administered on day 2 is the maintained dose starting on day 3.

Day 3 with Traditional Induction: Benzodiazepine (BZD) Withdrawal Management

Assess for BZD contamination:

- Hx of hallucinations, seizures, disorientation when decreasing opioid use Nausea, vomiting, sweating, restlessness,
- not relieved with buprenorphine/naloxone Non-prescribed benzodiazepine on UDS
- Use of at least 2pts of fentanyl per day
- NO
- Continue to monitor for withdrawal symptoms. Will likely not require BZD withdrawal management.



*A negative UDS result alone does not exclude the risk of benzodiazepine withdrawal

Each individual should be provided



PRECIPITATED WITHDRAWAL

 Can occur due to the replacement of a full opioid receptor agonist (e.g., fentanyl) with a partial agonist that binds with a higher affinity.

Occurs 30-60 min after the medication has

Symptoms

 Similar to opioid withdrawal (e.g., increased heart rate, sweating, agitation, diarrhea, tremor, unease, restlessness, tearing, runny nose, vomiting, and goose flesh)

WITHDRAWAL SYMPTOM **MANAGEMENT**



Gabapentin helps manage withdrawal related aches and pains. Dose: 300mg PO TID



related diarrhea. Dose: 4 mg (2 tabs) PO initially, then 2 mg (1 tab) PO after each loose bow movement (max daily dose: 16 mg)



Clonidine helps relieve sweating diarrhea, vomiting, abdominal cramps anxiety, and irritability.

HR <60bpm and/or BP <90/60mmHg se: 0.1-0.2 mg PO Q4-8H PRN



Clonazepam helps reduce seizure

Dose: 0.5 mg PO Q6-8H PRN

British Columbia Centre on Substance Use. (2022, January). Opioid Use Disorder, Practice Update. Retrieved from https://www.bccsu.ca/wpcontent/uploads/2022/02/Opioid-Use-Disorder-Practice-Update-February-2022.pdf

British Columbia Centre on Substance Use. (2023, November). A Guideline for the Clinical Management of Opioid Use Disorder. Retrieved from https://www.bccsu.ca/wp-content/uploads/2023/11/BC-OUD-Treatment-Guideline_2023-Update.pdf

Vancouver Coastal Health. (2021). Benzodiazepine Withdrawal Risk Due to Contaminated Illicit Opioid Supply Screening Tool.



Buprenorphine/Naloxone (BUP/NLX) Micro & Macro Inductions

For the Treatment of Opioid Use Disorder (OUD)

0.5

mg

tablet

2nd dose:

2nd dose:

2nd dose:

2.0

0.5

3rd dose:

BUPRENORPHINE/NALOXONE MICRO-INDUCTION DOSING SCHEDULE

Educate the individual to keep the medication under the tongue until fully dissolved (this can take up to 15 min).

Advise the individual not to eat, drink, or swallow while BUP/NLX is dissolving.

1mg/0.250 is half of a 2 mg tablet.

Give 1 whole 2 mg/0.5mg tablet

Doses given a minimum of 4 hours apart.

- Clinicians may ask for the below titration schedule to be prepared in a bubble pack for ease of use.
- Clinicians may consider co-prescribing a full agonist (e.g., SROM) during the micro-dosing induction if clinically indicated.

Day one Individual can continue to use prescribed and/or non prescribed opioids. 2nd dose: 0.5mg/0.125mg is 1/4 of a 2 mg tablet. 0.5 0.5 mg Doses given a minimum of 4 hours apart. 1/4 of a 2 mg tablet 1/4 of a 2 mg tablet

Day two Dose: 0.5mg three times daily Individual can continue to use prescribed and/or non prescribed opioids. 1st dose: 2nd dose: 3rd dose: 0.5mg/0.125mg is 1/4 of a 2 mg tablet.

> Doses given a minimum of 4 hours apart. 1/4 of a 2 mg tablet 1/4 of a 2 mg tablet 1/4 of a 2 mg tablet

0.5

1.0

2.0

Day three Dose: 1 mg twice daily Individual can continue to use prescribed and/or non prescribed opioids.

1st dose:

Doses given a minimum of 4 hours apart. 1/2 of a 2 mg tablet 1/2 of a 2 mg tablet

mg

tablet

mg

tablet

Day four Individual can continue to use prescribed and/or non prescribed opioids. 1st dose:

Day five Dose: 2 mg three times daily Individual can continue to use prescribed and/or non prescribed opioids.

> 2nd dose: 1st dose: 3rd dose: Give 1 whole 2 mg/0.5mg tablet 2.0 2.0 2.0 Doses given a minimum of 4 hours apart. 1

Day six Dose: 4 mg three times daily Individual can continue to use prescribed and/or non prescribed opioids.

1st dose: Give 2 whole 2 mg/0.5mg tablets 4.0 4.0 Doses given a minimum of 4 hours apart. 2 tablets 2 2

Day seven Cessation of prescribed and/or non prescribed opioids is encouraged to prevent precipitated withdrawal. 1st dose:

12.0

BUPRENORPHINE/NALOXONE MACRO-INDUCTION DOSING SCHEDULE

· Benefits: faster resolution of withdrawal symptoms, fewer tablets to dissolve, fewer nursing assessments, and a faster titration to a therapeutic dose • Risks (as per clinical studies): precipitated withdrawal, nausea, and hypotension (unlikely with doses <32mg).

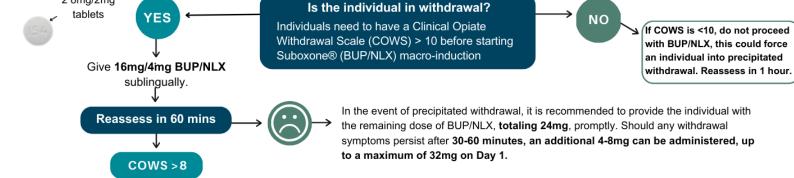
· Consider administering an anti-emetic 30 mins prior to Suboxone® if the individual is complaining of nausea.

Day 1: Determine the TIME since the LAST opioid use:

Give 6 whole 2 mg/0.5mg tablets

>24 hours since the last intermediate->12 hours since the last short acting opioid (e.g., hydromorphone) acting opioid (e.g., SROM, fentanyl)

>72 hours since the last long-acting opioid (e.g., methadone)



Repeat BUP/NLX 8mg/2mg-16mg/4mg every 1-2hrs Provide the individual with a prescription for the total dose administered on day until withdrawal is resolved or sedation occurs. 1 until the planned follow-up (max 7 days) (recommended Day 1 maximum dose is 32mg)

* Both micro and macro inductions of BUP/NLX are considered off-label and should be discussed with the individual and documented in their chart

References

2 8mg/2mg

- META PHI. (n.d.). Buprenorphine Macro dosing Initiation. Retrieved from MacrodosingOnePager.pdf (metaphi.ca).
- 2. Alberta Health Services. (2022). Calgary ODP micro dosing Buprenorphine/Naloxone.



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