Treatment of Opioid Use Disorder for Youth

Guideline Supplement
A Guideline for the Clinical Management of Opioid Use Disorder—Youth Supplement

The BC Centre on Substance Use (BCCSU) is a provincially networked platform mandated to develop, implement, and evaluate evidence-based approaches to substance use and addiction. The BCCSU’s focus is on three strategic areas including research and evaluation, education and training, and clinical care guidance. With the support of the province of British Columbia, the BCCSU aims to help establish world leading educational, research and public health, and clinical practices across the spectrum of substance use. Although physically located in Vancouver, the BCCSU is a provincially networked resource for researchers, educators, and care providers as well as people who use substances, family advocates, support groups, and the recovery community.

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Disclaimer for Health Care Providers

The recommendations in this guideline supplement represent the view of the Youth Supplement Committee, arrived at after careful consideration of the available scientific evidence and external expert peer review. When exercising clinical judgment in the treatment of opioid use disorder in youth, health care professionals are expected to take this guideline supplement, along with A Guideline for the Clinical Management of Opioid Use Disorder, fully into account, alongside the individual needs, preferences and values of patients, their families and other service users, and in light of their duties to adhere to the fundamental principles and values of the Canadian Medical Association Code of Ethics, especially compassion, beneficence, non-maleficence, respect for persons, justice and accountability, as well as the required standards for good clinical practice of the College of Physicians and Surgeons of BC, the College of Registered Nurses of British Columbia, and any other relevant governing bodies. The application of the recommendations in this guideline does not override the responsibility of health care professionals to make decisions appropriate to the circumstances of an individual patient, in consultation with that patient and their guardian(s) or family members, and, when appropriate, external experts (e.g., specialty consultation). Nothing in this guideline should be interpreted in a way that would be inconsistent with compliance with those duties.

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Executive Summary

This document is intended to supplement the BCCSU’s A Guideline for the Clinical Management of Opioid Use Disorder with an overview of care principles and recommended treatment options for youth with an opioid use disorder (OUD). Recognizing that OUD treatment for adolescents (age 12-17) has traditionally been limited to psychosocial treatment interventions and short-term in-patient detoxification (withdrawal management) programs, despite the extensive literature supporting the safety and effectiveness of opioid agonist treatment (OAT) for adults and an increasing number of medical associations, such as the American Academy of Pediatrics, endorsing medically assisted treatment for adolescents with OUD,¹ this guideline supplement recommends that the full range of available treatments be considered for youth with OUD, including OAT, with the recognition that effective treatment plans for youth with moderate to severe OUD are long-term and include a combination of psychosocial interventions, supports, and pharmacological treatments. In alignment with the BCCSU’s A Guideline for the Clinical Management of Opioid Use Disorder, this supplement recommends buprenorphine/naloxone as first line treatment of moderate/severe OUD. This document also recognizes the importance of tailoring treatment plans to each individual; youth-centered environments for both adolescents and young adults (age 18-25); screening and (when appropriate) offer of treatment for co-occurring disorders; and continuity of care. This document recommends that youth transition into adult-oriented services gradually, rather than abruptly “aging out.” A summary of the clinical care recommendations in this supplement is provided below.

This document uses the following age-group definitions:

Adolescents=12-17 years; Young Adult=18-25

¹ Maximum age should be checked before a referral is made, as service providers’ age ranges vary.
## Summary of Recommendations

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<td>1. The full range of available treatments should be considered for youth with OUD, including OAT, other pharmacological treatments, non-pharmacological interventions, and recovery-oriented services, with buprenorphine/naloxone recommended as first line treatment for moderate/severe OUD. (See <a href="#">Clinical Recommendations</a>.)</td>
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<td>2. Treatment approaches/plans for youth with OUD should be developmentally-appropriate, youth centered, trauma-informed, culturally appropriate, confidential, promote recovery, and include family involvement when appropriate. (See <a href="#">Principles of Youth Substance Use Disorder Treatment</a>.)</td>
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<td>3. When pharmacological treatment is indicated, buprenorphine/naloxone is recommended as first line treatment due to safety advantages and improved flexibility (e.g., take-home doses). (See <a href="#">Buprenorphine/naloxone</a>.)</td>
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<td>4. Transitioning to methadone should be considered in youth who do not respond to adequately dosed buprenorphine/naloxone. (See <a href="#">Methadone</a>.)</td>
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<td>5. Withdrawal management alone is not recommended, as this approach has been associated with elevated rates of relapse, HIV infection and overdose death. If it is the chosen course of action, a discharge plan should be in place for referral to ongoing addiction treatment (i.e., intensive outpatient treatment, residential treatment, access to long-term OAT, or antagonist treatment). (See <a href="#">Withdrawal Management</a>.)</td>
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<tr>
<td>6. Psychosocial treatment interventions and support should be routinely offered to all youth with OUD but should not be a barrier into accessing care. (See <a href="#">Age-Appropriate Psychosocial Treatment Interventions and Supports</a>.)</td>
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<tr>
<td>7. All youth should be screened for substance use disorders, including co-occurring mental health disorders. (See <a href="#">Screening</a>.)</td>
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<tr>
<td>8. Information and referral to take-home naloxone programs and other harm reduction services should be routinely offered to patients and, when appropriate, friends and family members as part of standard care for OUD. (See <a href="#">Harm Reduction Strategies</a>.)</td>
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<tr>
<td>9. Prescribers should consult the Rapid Access to Consultative Expertise (RACE) line and/or refer to addiction physicians with experience treating youth with OUD and refer to specialty care targeted at youth as available and appropriate. (See <a href="#">Specialist Consultation</a>.)</td>
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See Appendix 1 for DSM-5 diagnostic criteria for opioid use disorder
Introduction

Opioid use disorder in adolescents and young adults (collectively referred to as youth in this document), when compared to other substance use disorders (SUD), is associated with increased risks of both morbidity and mortality.1 Opioid use in youth populations is also associated with severe polysubstance use disorders, risk of blood-borne infections (HIV and hepatitis C), and significant social and legal problems.3 Although current estimates of OUD prevalence among youth in Canada are lacking, the 2017 Ontario Student Drug Use and Health Survey found 10.6% of students in grades 7-12 had used non-prescribed prescription opioids in the past year, with 0.9% of grade 9-12 students having used fentanyl in the past year.4 Additionally, the proportion of youth overdose deaths in British Columbia offer some sense of the scope of the issue. Youth aged 10-24 accounted for almost 21% of all illicit opioid overdose deaths in British Columbia from January 1, 2015 to December 31, 2016.5 More recently, young people aged 13-29 accounted for 20.4% of all illicit opioid overdose deaths in BC from January 1 to October 31, 2017.6

OUD treatment for adolescents (age 12-17) has traditionally been limited to psychosocial treatment interventions and short-term in-patient withdrawal management (“detox”) programs, despite the extensive literature supporting the safety and effectiveness of OAT for adults.2 Due to ethical and practical considerations, few randomized controlled trials have been conducted examining OUD treatments in adolescents.8,9 The limited evidence available suggests that buprenorphine/naloxone is effective in reducing opioid use in young adults aged 18-25, although reported retention rates are significantly lower than those observed in older adults.10-12 Due to this limited research there is similarly a lack of evidence-based guidelines to guide practice for treating youth with OUD.9,8 There are studies, however, that show that effective treatment plans for youth with moderate to severe OUD are long-term and include a combination of psychosocial interventions, supports, and pharmacological treatments along with psychiatric medication management (as clinically appropriate).14,15 This combination of treatments requires an interdisciplinary team-based approach, which has shown to be useful in treating and promoting recovery in youth with OUD.13

Treating youth with OUD can be challenging, due to the lack of evidence-based guidelines, scarcity of youth-focused treatment resources, prevalence of co-occurring disorders and polysubstance use,15 and often fewer negative consequences related to drug use (due to a shorter history of opioid use), which might serve as motivation for treatment.14

This supplement to A Guideline for the Clinical Management of Opioid Use Disorder offers clinical guidance for the treatment of youth aged 12-25. In this document, youth may be understood to include two age groups, adolescents (12-17 years) and young adults (18-25 years). It is recommended that young adults continue to receive youth-oriented care rather than “aging out” at age 19 (or younger) and into adult-oriented care. This ensures continuity of care and maintains the relationships built with staff and trusted services. This guidance is based on the existing literature on youth OUD treatment and the clinical experience of the Youth Supplement Guidance Committee.

This guideline supplement recommends that the full range of available treatments and services should be considered applicable to this population of OUD patients, with buprenorphine/naloxone recommended as the first line option for moderate or severe OUD. Each case should be considered individually, with expert consultation advised where needed. Additionally, patients with OUD benefit from the integration of harm reduction interventions, including education about sterile supplies and safer injection practices to reduce the risk of blood-borne pathogens (e.g., HIV, hepatitis C) and soft tissue infections, as well as promoting access to take-home naloxone, syringe distribution programs, and supervised consumption services to reduce risk of blood-borne infection and fatal overdose among high-risk patients or patients with ongoing opioid use.16,17
Principles of Youth Substance Use Disorder Treatment

Youth with OUD face multiple challenges, and patient engagement for health care providers can be challenging as well. Treatment for youth with OUD should be flexible, low-barrier, developmentally-appropriate, youth-centered, and include family involvement when appropriate. Several youth-specific factors have been identified to improve treatment engagement and retention. These include ensuring that services are youth-oriented; relevant; interesting; accessible; confidential; family inclusive; offer a combination of pharmacological treatments and psychosocial treatment interventions, supports, and long-term recovery planning; offer the opportunity to develop close relationships with staff; and have no pre-determined treatment end date.

Developmentally Appropriate Considerations

Several clinical differences exist between adolescents and adults, which must be attended to when treating adolescents for OUD. These include a higher rate of polysubstance use in adolescents, a tendency to not disclose withdrawal symptoms, and a reduced tendency to seek treatment. Adolescents’ lower likelihood of seeking treatment is thought to be related to a variety of factors including facing fewer (perceived) consequences related to drug use, often due to a shorter history of using drugs; drug use among their peers; the normalization of drug use; and a lowered ability to recognize their substance use as a problem, owing to lower levels of maturity than adults. Although the implications for substance use and other behavioural regulation are unclear, literature on brain development shows that the prefrontal cortex continues to develop into young adulthood, and adolescence represents a significant period of neural development with development continuing into the mid-to-late twenties. Substance use in adolescence has been found to affect brain structure and function as well as behaviour negatively, although it should be noted that the impacts of particular substances is unclear.

Principles of Youth OUD Treatment

The following principles of youth OUD treatment should be followed.

1. Multiple Approaches of Varying Intensities

Similar to other chronic conditions, youth with OUD may need to try multiple approaches of varying intensities along the care continuum (see Table 1 in A Guideline for the Clinical Management of Opioid Use Disorder). These approaches may include outpatient, inpatient, and residential treatment programs; recovery-oriented services including peer-support programs; supportive recovery housing; psychosocial treatment interventions and supports; mental health and psychiatric care; chronic pain management; primary care; addiction medicine specialist consultation; trauma therapy; and specialized services for Indigenous youth (which may include community involvement). Beyond addiction care needs (including treatment for comorbid SUDs, for example, stimulant use disorders), OUD care should also integrate mechanisms to support appropriate and timely movement along the continuum of care and promote recovery. This document supports movement within and between treatment options and recommends the use of a stepped and integrated continuum of care model for treatment of OUD. Treatment intensity should be continually adjusted to match individual patient needs and circumstances over time with the recognition that many individuals may benefit from the ability to move between treatments.

2. Recovery-oriented Care

The continuum of care for OUD should be understood as inclusive of recovery, with an understanding that recovery looks different for each person, with many different possible paths. It should be understood that relapse is frequent among youth in treatment for OUD and that it is often part of the path to recovery. This

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Note: the definition of recovery used in this document may be updated in order to provide consistency across all BCCSU guidelines, supplements, and supporting documents.
guideline supplement uses the Substance Abuse & Mental Health Services Administration definition of recovery, which is:

A process of change through which individuals improve their health and wellness, live a self-directed life, and strive to reach their full potential.

Those seeking recovery require understanding, support, and referral to appropriate services to achieve their goals. OUD care providers are encouraged to incorporate and use language that promotes recovery in their practice. Recovery-oriented care includes ensuring respect of the patient's autonomy and individuality (both as partners in determining treatment modalities and throughout their recovery), emphasizing skills and strengths, and avoiding reinforcement of paternalistic models of care provision. Additionally, as appropriate and in line with the individual's goals, OUD care teams are encouraged to work collaboratively with patients and families, when appropriate, to develop long-term, personalized, strengths-based recovery plans regardless of the severity, complexity, and duration of their substance use.

3. Early Intervention

Early intervention should be emphasized when providing care for youth using illicit opioids. This includes responsive and time-sensitive treatment, which allows youth to receive care when they disclose their substance use to a care provider (e.g., same-day OAT starts for OUD when appropriate, timely access to psychosocial treatment and supports for all youth who use substances, if indicated). Additionally, early intervention allows for treatment to be provided to youth who are using substances problematically but do not meet diagnostic criteria for OUD. While this guideline supplement recognizes the important role of prevention and health promotion activities related to SUDs and problematic substance use in youth, the focus of this guideline supplement is for treating diagnosed OUDs in youth (see Prevention section below)

4. Full Range of Treatments Should Be Offered

The full range of available evidence-based treatments should be considered for youth with OUD, including OAT and other pharmacological treatments as well as psychosocial treatment interventions, supports and recovery-oriented services. This document recommends buprenorphine/naloxone as first-line treatment for moderate/severe OUD (see Pharmacological Treatment in this document).

5. Treatment Approaches Should Be Tailored Individually to Each Patient

Like with adult patients, treatment of OUD in youth should be matched to each patient's needs and circumstances and should encompass a comprehensive approach that includes assessment and treatment of any co-occurring psychiatric and learning disorder(s), psychosocial treatment interventions including cognitive behavioural therapy and motivational enhancement therapy, psychosocial supports (e.g., housing, education, and career planning), recovery services, and family involvement in care (see Family Involvement in Care in this document). Treatment plans should factor in age, gender, substance use history and trajectory, any experiences of violence, exploitation, trauma, and other factors that may support or negatively impact treatment adherence, including romantic partners, gender identity, sexual orientation, and family history.

Due to the higher prevalence of trauma history and comorbid post-traumatic stress disorder among individuals with SUDs compared to the general population, clinicians should be familiar with the principles of trauma-informed practice (e.g., trauma awareness; safety and trustworthiness; choice, collaboration and connection; strengths-based approaches and skill building). The provincial trauma-informed practice (TIP) guide may be a useful resource to inform care. Referral sites for trauma-informed psychosocial services can be found on the BC211 website.

In addition, clinicians and staff should undertake cultural safety training to improve ability to establish positive partnerships with Indigenous clients seeking care for substance use and related harms. Cultural safety training is intended to help health care providers create an environment free from racism and
discrimination, allowing Indigenous youth and their families to safely access care. The San’yas Indigenous Cultural Safety Training Program, developed by the Provincial Health Services Authority (PHSA) Aboriginal Health Program, is an online training program designed to increase knowledge, enhance self-awareness, and strengthen the skills of those who work both directly and indirectly with Aboriginal people, and is an excellent resource for clinicians seeking to build their cultural competency. Please refer to the San’yas program website for more information.

6. Psychosocial Treatment Interventions and Supports

Psychosocial treatment interventions and support should be routinely offered to all youth with OUD but should not be a barrier to accessing care (see Age-Appropriate Psychosocial Interventions and Supports in this document).

7. Continuity of Care

Youth SUD treatment should ensure continuity of care. This includes continued support after, for example, tapering off OAT, or completing residential treatment services and transitioning into less intensive care, as well as ensuring that youth do not “age out” of care, thereby severing the trusting relationships that have been built with services and service providers. It is recommended that young adults continue to receive youth-oriented care rather than aging out and transitioning to adult-oriented care. It should be noted that youth-focused services have a variety of age range cut offs (e.g., 19, 23, or 25 years of age), and close attention should be paid to these age range cut offs. Special considerations should be made for older youth (i.e., 23-25 years old) when transitioning from the youth system into adult-oriented care (see Transitioning into Adult-Oriented Care in this document). It should be noted that different cultures may have different conceptualizations of when youth ends, requiring flexibility and, when appropriate, advocacy to continue receiving youth-focused services beyond age range cut offs. Patients with developmental delays or other cognitive issues may also benefit from continued youth-oriented services.

Youth may also benefit from increased support to access services, which may include reminders of appointments, assistance in getting to appointments, and support linking to services, as well as flexibility in how care is provided.

8. Co-Occurring Disorders

All youth with OUD should be assessed for co-occurring disorders (see Co-Occurring Disorders in this document) and referred to specialized care when appropriate (Foundry can facilitate referrals in communities where Foundry Centres exist, or child and youth mental health and substance use services in each health authority).

9. Harm reduction

Opioid use disorder is often a chronic, relapsing disorder. Therefore, education and referral to take-home naloxone programs and other harm reduction services (including safer injection and inhalation supplies) should be routinely offered as part of standard care for OUD for all youth (see Harm Reduction Strategies in this document).
Table 2- Principles of Youth OUD Treatment (Summary)

1. SUDs are chronic, relapsing conditions and youth with OUD may need to engage in multiple approaches of varying intensities along the care continuum.

2. The continuum of care for OUD should be understood as inclusive and supportive of youth achieving long-term recovery, with an understanding that recovery looks different for each person.

3. Early intervention should be emphasized in providing care for youth using illicit (illegal and non-medical) opioids.

4. The full range of available treatments should be considered for youth with OUD, including OAT and other pharmacological and non-pharmacological treatments, with buprenorphine/naloxone recommended as first-line treatment for moderate/severe OUD.

5. Treatment approaches should be tailored individually to each patient.

6. Psychosocial treatment interventions and supports should be routinely offered to all youth with OUD but should not be a barrier to accessing care.

7. Youth SUD treatment should ensure continuity of care, prevent “aging out”, and support transitions between care settings and levels of care.

8. All youth with OUD should be assessed (and, when necessary, offered treatment), for co-occurring disorders.

9. Education and referral to take-home naloxone programs and other harm reduction services should be routinely offered as part of standard care for OUD.
Clinical Recommendations

Withdrawal Management

Safety Warning

IMPORTANT SAFETY NOTICE

Withdrawal management (“detox”) alone is not recommended, due to high rates of non-completion and relapse to opioid use. In addition, risks of serious harms including fatal and non-fatal overdose and transmission of HIV and hepatitis C are higher for individuals who have recently completed only withdrawal management compared to individuals who receive no treatment. Please see A Guideline for the Clinical Management of Opioid Use Disorder (p. 19) for more information on withdrawal management.

Medically-Assisted Withdrawal Management

As outlined above, withdrawal management alone is not an effective treatment for OUD and carries with it significant risk of overdose. However, in many places, medically assisted withdrawal management followed by intensive psychosocial treatment interventions and supports is considered the standard of care. Withdrawal symptoms, especially cravings, can continue for weeks or even months after substance use has ceased. A study comparing medication-assisted withdrawal management using a 28-day buprenorphine versus a 56-day buprenorphine taper found that the long taper of 56 days was significantly more effective in terms of abstinence and retention than a faster (28-day) taper in youth aged 16-24. The slower tapering of opioids is theorized by the study authors to better control withdrawal symptoms and stabilize neurochemistry. It should be noted that the study authors also postulate that buprenorphine maintenance treatment is likely to have superior retention and abstinence rates than withdrawal management and should be offered to all youth undertaking medically-assisted withdrawal management.

Pharmacological Treatment for Opioid Use Disorder

This guideline supplement recommends that the full range of available treatments and supports, from harm reduction services to recovery-oriented services to pharmacological treatment be considered for youth with OUD, with buprenorphine/naloxone recommended as first line treatment for moderate/severe OUD. Recent studies have suggested that pharmacological treatment with a full or partial opioid agonist paired with comprehensive psychosocial treatment interventions and supports leads to better clinical outcomes. It is not, however, clear which OAT is best for which patient in youth populations.

Important Risk-Benefit Considerations

Some practitioners may be hesitant to prescribe OAT to youth, due to both a reluctance to start them on what is frequently considered a long-term treatment and concern over bringing youth into daily contact with adult patients, if youth-specific OAT services are not available. These concerns should be carefully weighed against the risks of discontinuing or not starting pharmacotherapy and continued drug use including overdose, HIV, viral hepatitis, and other morbidity and mortality. Additionally, this document recommends first line pharmacotherapy of buprenorphine/naloxone for moderate/severe OUD, which often can be prescribed with flexible-take home dosing and may reduce concerns of youth coming into daily contact with adult patients. The significant risks associated with injecting opioids including fatal overdoses, endocarditis, human immunodeficiency virus (HIV) and hepatitis C, must also be considered for those patients who inject opioids. Any medications prescribed should be done in conjunction with a frequently reviewed treatment plan, appropriate psychosocial treatment interventions and supports, and recovery planning. The development of a medication monitoring plan with families, when involved, and the provision of incentives for medication compliance, should be considered as they can help improve treatment outcomes. Further advantages and disadvantages of buprenorphine/naloxone and methadone can be found in A Guideline for the Clinical Management of Opioid Use Disorder (p. 26).
Criteria to Consider for Opioid Agonist Treatment in Youth

As individual situations vary, criteria to consider for opioid agonist treatment in youth (Table 3) with OUD are presented with the recognition that individual patients may not meet all of the listed criteria, while other criteria, not listed, could make a compelling case for the use of OAT. Clinicians are encouraged to consider each patient’s situation, including age, maturity/developmental age, history and trajectory of drug use, and to consult with an addictions specialist or the RACEline when unsure.

It should also be noted that coroner data detects high proportions of stimulants (cocaine (48%) and methamphetamine/amphetamine (33%)) in illicit drug overdose deaths from 2015 to 2016 in British Columbia. The use of OAT may be appropriate in youth who have a mild OUD with active stimulant use disorder in the context of the current overdose crisis, in which the illegal drug supply has been toxically adulterated with fentanyl and other synthetic opioids.

The following criteria to consider for OAT in youth with OUD, adapted from Hammond (2016) may be helpful in determining when OAT is an appropriate treatment. Additional guidance on selecting pharmacotherapies can be found in A Guideline for the Clinical Management of Opioid Use Disorder.
### Table 3- Criteria to Consider for Opioid Agonist Treatment in Youth with OUD

When to consider OAT for youth with OUD (not all criteria must be met):

- Moderate to severe OUD as per DSM-5 diagnostic criteria (see Appendix 1)
- Comorbid/co-occurring physical or psychiatric disorders that require medical intervention
- Youth has not benefitted significantly from psychosocial treatment interventions and recovery-oriented services
- History of overdose, injection drug use, emergency department visits related to opioid use
- Youth faces a high risk of morbidity and mortality (e.g., overdose, injection drug use, high risk sexual behaviours, driving while intoxicated)
- Family or parents/guardian (or other supports) are engaged in treatment planning and able to monitor and support ongoing treatment and recovery
- 16 years or older (Note: clinical judgment may supersede this criterion depending on severity of OUD, history of overdose, or other risks. Consultation with the RACEline or addiction medicine specialists is recommended)

Factors to consider when choosing a medication:

- Patient's past experience (e.g., type, medication adherence, duration) and treatment outcomes with OAT and preference
- Patient's past experience and treatment outcomes with psychosocial interventions and recovery-oriented services
- Patient and family's attitudes and beliefs regarding OAT (Note: this may be an opportunity for patient and family education)
- Family involvement in treatment and recovery planning
- Patient-centered goals (e.g., reducing use, safer use, abstinence)
- Health status (medical and psychiatric history, allergies)
- Potential contraindication for concurrent medication (methadone relative contraindications: MAOIs, SSRIs, anti-psychotics, quetiapine fumarate (tradename Seroquel®), benzodiazepines (see Benzodiazepines and Opioid Agonist Treatment in this document), and other CNS-depressants; buprenorphine/naloxone contraindications: benzodiazepines (relative, see Benzodiazepines and Opioid Agonist Treatment in this document), opioid analgesics, other CNS-depressants)
- Safety profile of medication

The choice of agonist treatment depends on several patient-specific factors such as initial presentation, comorbidities (e.g., liver disease, prolonged QTc interval), drug-drug interactions, treatment preference, family and social supports, and previous response(s) to treatment, as well as prescriber experience and appropriate education and training. Regardless of type of treatment administered, opioid agonist treatment should incorporate provider-led counselling—medically-focused, informal counselling that includes, but is not limited to, health and mental wellness checks, offering non-judgmental support and advice, assessing motivation and exploring barriers to change, developing a holistic treatment plan, promoting alternative strategies for managing stress, and providing referrals to health and social services when requested or appropriate, which may also include motivational interviewing. OAT treatment should also incorporate long-term substance use care (e.g., regular assessment, follow-up and urine drug tests), provision of compre-

* Adapted from Hammond (2016)
hensive preventive and primary care, and referrals to psychosocial treatment interventions, psychosocial and recovery supports, and specialist care as required, to optimize physical and mental wellness as the patient progresses in recovery.

Due to the risk of overdose from drug-drug interactions, current substance use, including alcohol, other sedatives, and prescription medications, should be reviewed with patients at every visit and confirmed with PharmaNet records.

**Opioid Agonist Treatment**

**Buprenorphine/naloxone**

In Canada, buprenorphine/naloxone treatment is currently indicated for patients over 18 years of age who meet the criteria for moderate to severe opioid disorder; see *Capacity to Consent* in this document for information on treating youth under 19 years. Although there is currently limited evidence supporting buprenorphine/naloxone use in adolescents there is extensive literature supporting the use of buprenorphine/naloxone in adults with OUD, and buprenorphine used as analgesia has been shown to be safe and efficacious in adolescents, while a retrospective evaluation of adolescents aged 15-18 receiving buprenorphine/naloxone for OUD found it to be well-tolerated by most. Some patients were noted to have elevated liver enzymes. A study of buprenorphine used for analgesia in patients under 18 years found no serious respiratory events and found side effects occurred at rates similar to those in adults. The limited evidence available suggests that buprenorphine/naloxone is effective in reducing opioid use in young adults aged 18-25, although reported retention rates are significantly lower than those observed in older adults.

Two randomized controlled studies have shown the benefit of treatment with buprenorphine for youth with OUD, however, neither study included adolescents under 16 years old. These studies include a comparison of buprenorphine and clonidine, and a comparison of short-term vs. long-term buprenorphine tapers. In the first trial, a randomized controlled trial with adolescents given either a 28-day buprenorphine taper or a 20-day clonidine taper followed by 8 days of placebo, buprenorphine was found to be significantly superior to clonidine in terms of retention in treatment and sustained abstinence. A secondary analysis of the trial found that both heroin-dependent and prescription-opioid dependent youth show comparable levels of abstinence and retention, concluding that buprenorphine plus behavioural treatment is safe and efficacious for both heroin- and prescription opioid-using youth with OUD.

In the second randomized controlled trial, which evaluated the impact of extended, rather than short-term, buprenorphine/naloxone therapy for youth aged 15-21, one group of participants received a two week buprenorphine/naloxone taper and the other received eight weeks of buprenorphine/naloxone treatment followed by a four-week taper, both paired with twelve weeks of psychosocial treatment intervention. The youth who received eight weeks of buprenorphine followed by a four-week taper had significantly lower rates of non-medical and illegal opioid use while in treatment, compared to the group who completed a two-week taper. However, this difference faded shortly after buprenorphine was stopped completely. In light of this finding, there is currently no evidence for a rapid taper if a youth patient responds well to buprenorphine/naloxone. See *Transitioning Off of Opioid Agonist Treatment* in this document for information on tapering best practices when a taper is desired.

A secondary analysis of the buprenorphine/naloxone taper study found several factors that predicted higher rates of opioid-negative drug screens at week 12. Higher rates of opioid-negative urine drug screens were predicted by injection drug use and other indicators of advanced opioid use, and a higher number of active psychiatric and/or medical issues. These findings are in line with similar findings in adults. Additionally, the study authors postulate that an awareness of deteriorating health and the considerable amount of time spent acquiring and using drugs at the expense of other activities may explain the associations between improved treatment outcomes and injection drug use, as well as higher rates of internalizing disorders and improved
Another secondary analysis found that early medication adherence and opioid-negative urine drug screens predicted retention at week 12. These findings may help in determining who may benefit most from buprenorphine/naloxone, and when intensification of treatment is indicated. Additionally, the increased dropout in the two-week taper group was found to correspond with the end of the taper, adding further evidence that longer-term buprenorphine/naloxone treatment aids in retention.

Youth, aged 18-25, were found to have significantly lower retention rates compared to older adults in a collaborative care buprenorphine treatment program in which they received buprenorphine, nurse care management, and an intensive out-patient program which was then followed by psychosocial treatment weekly, in a retrospective chart review. This may suggest a need for youth-oriented services specifically for young adults aged 18-25, and greater support to promote adherence. More research is needed to identify factors that improve treatment retention in young adults.

Buprenorphine/naloxone is recommended as a preferred first-line option in youth in the absence of contraindications. For more information on buprenorphine/naloxone including safety and dosing, please see A Guideline for the Clinical Management of Opioid Use Disorder (p. 24).

**INDUCTION AND DOSAGE:**

Due to the lack of published evidence to guide dosing of OAT in youth, it is recommended that clinicians use an individualized and step-wise approach in order to determine the optimal dose for each patient. The instructions for buprenorphine/naloxone induction in A Guideline for the Clinical Management of Opioid Use Disorder (p. 41) may be followed and paired with clinical judgment. Further, prescribers without experience initiating youth on buprenorphine/naloxone may consult with a specialist with considerable experience treating youth with OUD or the RACEline.

Clinical experience from a medication-assisted treatment program in the United States indicates that youth, like adults, can successfully start buprenorphine/naloxone at home. The instructions for buprenorphine/naloxone home induction in A Guideline for the Clinical Management of Opioid Use Disorder (p. 41) can be followed. There is some evidence suggesting that limiting activities and cell phone access during the induction phase may be useful, as contact with friends who use drugs was found to be the most common contributor to relapse for patients in a medication-assisted treatment program in the United States.

If home induction is pursued, it is important that youth have a supportive and responsible partner, family member, or other support person available to provide support and assistance during the home induction period, as well as telephone access to their prescriber.

**Methadone**

To date, the use of methadone for the treatment of OUD in adolescents has not been evaluated in a controlled trial. However, descriptive and observational studies have found that methadone supports treatment retention in adolescents with OUD. One observational study also found a higher retention rate for adolescents who use heroin receiving methadone-based OAT compared to buprenorphine/naloxone-based OAT, however, buprenorphine/naloxone remains the recommended first-line treatment for its superior safety profile and flexibility for take-home dosing. For those reasons, methadone may be considered a second-line option for youth with OUD who have been unable to start or did not respond well to buprenorphine/naloxone. Given the risk associated with starting and stopping OAT (i.e., decreased tolerance leading to a higher risk of overdose), methadone should be considered for youth who are unable to remain on buprenorphine/naloxone. Additionally, for patients who struggle with ongoing illicit opioid use while on adequately dosed buprenorphine/naloxone, a transition to methadone should be considered. A thorough

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1Home inductions may also be performed in group homes or juvenile detention centres when appropriate, as these may present an opportunity to engage youth in treatment.
review of the evidence supporting the use of methadone in those over 18 years can be found in A Clinical Guideline for the Clinical Management of Opioid Use Disorder (p. 22).

Methadone may be an acceptable alternative first-line option in cases where it will be challenging to induce onto buprenorphine/naloxone or where loss to follow-up could be highly problematic from the perspective of individual or public health (e.g., risk of HIV transmission, multiple non-fatal overdoses). For instance, methadone may be preferred for severely unstable individuals with risky, high-intensity use, for whom buprenorphine/naloxone doses may be suboptimal leading to poorer retention rates. In the context of the current opioid overdose crisis resulting from highly potent synthetic opioids adulterating the street-drug supply, it is hypothesized by the Youth Supplement committee that some youth may require a full, rather than a partial, agonist.

It is recommended that an addictions specialist or the RACElne be consulted when escalating intensity of treatment, for example, transitioning from buprenorphine/naloxone to methadone. It should also be noted that most methadone clinics are not youth-friendly which may represent a barrier to youth accessing methadone. Youth may require assistance in finding an accessible pharmacy that dispenses methadone.

INITIATION AND DOSAGE:

Due to the lack of published evidence to guide dosing of OAT in youth, it is recommended that clinicians use an individualized and step-wise approach in order to determine the optimal dose for each patient. The instructions for methadone initiation in A Guideline for the Clinical Management of Opioid Use Disorder (p. 37) may be followed and paired with clinical judgment. Further, it is recommended that prescribers without experience initiating youth on methadone consult with a specialist with considerable experience treating youth with OUD or the RACElne.

Slow Release Oral Morphine

To date there is no evidence for the use of slow-release (24-hour) oral morphine in youth for the treatment of OUD. However, similar to the guidance given in A Guideline for the Clinical Management of Opioid Use Disorder (p. 27, 49) for the treatment of OUD in adults, slow-release oral morphine may be considered for patients who have been unsuccessful with first- and second-line options, or who have contraindications to first- and second-line treatment options. It is recommended that health care providers who wish to prescribe slow-release oral morphine complete the slow-release oral morphine module via the BCCSU’s Provincial Opioid Addiction Treatment Support Program. Further, it is recommended that prescribers consult with a specialist with considerable experience treating youth with OUD or the RACElne.

Take-Home Dosing

Take-home dosing can be considered a standard component of treatment with buprenorphine/naloxone, whereas for methadone and slow-release oral morphine, treatment should involve daily witnessed ingestion, with graduated take-home dosing provided only when patient stability is clearly demonstrated and routinely assessed.

Take-home dosing of oral agonist therapy may be beneficial in terms of improved motivation to participate in OAT, improved treatment retention, increased patient autonomy and flexibility, positive reinforcement of abstinence, decreased treatment burden, and decreased costs related to daily witnessed ingestion. Family support, when appropriate, is important and can be helpful in maintaining take-home dosing. However, these benefits must be balanced against patient and public health risks associated with take-home dosing.

Regular urine drug testing is the standard of care in OAT programs and can be used to assess adherence to OAT, validate self-reported use of opioids or other substances, detect use of other substances which may
affect safety (e.g., benzodiazepines), and evaluate treatment response and outcomes (i.e., abstinence from heroin or other opioids). See *A Guideline for the Clinical Management of Opioid Use Disorder* for urine drug testing recommendations for each OAT medication.

It is important to note that there are major individual and public safety differences that exist between different opioid agonist therapies. For instance, an estimated 25% of prescription opioid overdose fatalities in British Columbia in recent years have involved methadone, whereas deaths resulting from buprenorphine/naloxone are very uncommon, even in settings where rates of take-home dosing of buprenorphine/naloxone prescription are high. It is for these reasons that take-home dosing is recommended as a standard component for buprenorphine/naloxone only.

Specific recommendations for take-home dosing and monitoring of take-home dosing can be found in *A Guideline for the Clinical Management of Opioid Use Disorder* (p. 53).

**Benzodiazepines and Opioid Agonist Treatment**

Although concurrent use of benzodiazepines and opioids increases the risk of overdose due to depression of the central nervous system, the harms and risks associated with untreated opioid use disorder may outweigh these risks. Careful management of medications, including patient education and, when possible, benzodiazepine tapers, can mitigate these risks. Additional guidance on managing concurrent use of benzodiazepines and OAT can be found on the [U.S. Food and Drug Administration's website](https://www.fda.gov). Per guidance from the College of Physicians and Surgeons of BC, benzodiazepines must not be co-prescribed with opioids unless as a documented taper, and PharmaNet should be reviewed at each clinical visit to confirm that another care provider has not prescribed these medications. The College of Physicians and Surgeons of BC's [Safe Prescribing of Drugs with Potential for Misuse/Diversion](https://www.cpsbc.ca) should be consulted to ensure safe prescribing standards are being met.

**Transitioning Off of Opioid Agonist Treatment**

The optimal duration of OAT in youth is unknown and this document does not recommend OAT be provided with a pre-determined end-date. However, once stabilization is achieved, and if patient and prescriber agree that de-intensification of treatment is appropriate, the evidence supports voluntary, long, gradual stepped-tapering schedules where dose reductions are scheduled to occur monthly or bimonthly, over a period of many months. This approach is strongly recommended. See “Combination approaches and movement between approaches” in *A Guideline for the Clinical Management of Opioid Use Disorder* (p. 29) for more information on transitioning off of OAT.

**Naltrexone**

Extended-release naltrexone (XR-NTX, brand name Vivitrol®) is an opioid antagonist that fully blocks the effects of opioids. This blockade effect can help reduce relapse and overdose while increasing treatment adherence. However, further research is needed to establish the safety and efficacy of XR-NTX in youth. For those youth where OAT is not indicated or wanted, preliminary evidence suggests XR-NTX is tolerated well and associated with good treatment outcomes. However, caution is advised when interpreting this evidence based on descriptive case studies. In the case series of adolescents prescribed XR-NTX, those patients who reported opioid use while receiving the medication reported experiencing little or no euphoria or other subjective effects of opioid intoxication. For many, this reduced the value of taking illegal and non-medical opioids. Although the blockade effect of XR-NTX is reported to last 30 days, testing the blockade was quite common and some patients found they were able to overcome the blockade in the last few days of
the 30-day period. Therefore, extreme caution is required for all patients on XR-NTX that are at risk of overdose; subsequent follow-up visits and monthly injections must be scheduled prior to the 30-day agonist blockade window ending. Like with other pharmacological treatments, medication compliance is integral to success and may be enhanced by the involvement of parents in care. At present, XR-NTX is only available in Canada for clinical and research purposes or through Health Canada’s Special Access Programme. Recently, however, Health Canada has included XR-NTX on a list of approved drugs for importation to British Columbia to address the urgent public health need to treat addiction, which will allow for importation outside of the Special Access Programme.

Oral naltrexone has been shown to have limited effects over placebo. More information on oral naltrexone efficacy can be found in A Guideline for the Clinical Management of Opioid Use Disorder (p. 28).

Non-Pharmacological Treatment

Age-Appropriate Psychosocial Treatment Interventions and Supports

Psychosocial treatment interventions and supports should be routinely offered to youth with OUDs. Clinical trials have demonstrated that cognitive behavioural therapy (CBT) and family therapy approaches are efficacious in treating adolescents with problematic substance use, however, their efficacy in treating OUD has not been studied. Additionally, a number of modalities are likely to be efficacious for the treatment of SUD, with vocational support, family intervention approaches, and other behavioural interventions aimed at reducing use incrementally recommended by the American Society for Addiction Medicine for the treatment of OUD in youth. Initial research has shown the feasibility and acceptability of the Adolescent Community Reinforcement Approach for adolescents with symptoms that aligned with DSM-IV-TR definitions of opioid abuse or dependence, or who reported weekly or more frequent opioid use. Because outcomes can vary widely and no single approach has been found to be equally efficacious in all youth, each youth should be offered an individualized treatment approach based on a comprehensive assessment of their needs and other factors. As with adult populations, involvement in psychosocial treatment interventions should be routinely offered, however, participation in these programs should not be viewed as a requirement or barrier to receiving treatment for OUD.

Contingency Management

Contingency Management (CM) applies contingencies in the form of reinforcement and consequences in order to reduce substance use. Although contingency management has been shown effective in adults with opioid use disorder who are not receiving OAT, very little research has been done on CM interventions for youth with OUD. The goal of contingency management is to reduce the reinforcement provided by drug use while simultaneously increasing the reinforcement for healthier activities, with an emphasis on those which are incompatible with continuing to use drugs. A study with 347 patients between the ages of 12 and 18 in a community-based SUD treatment centre found a statistically significant reduction in opioid-positive urine drug tests, although opioid-positive urine drug tests overall made up a small number of the substance positive urine drug tests. See Appendix 4 for an example of contingency management.

Family Involvement in Care

The informed involvement of family members, as defined by the youth, can be instrumental to achieving successful outcomes for youth with SUDs. In addition to providing emotional support, family members can also function as caregivers and may help monitor the patients between follow-up appointments while ensuring that patients attend their pharmacy for daily witnessed ingestion and/or ensure that take-home
doses (when appropriate) are consumed as prescribed and appointments are kept.\textsuperscript{19} Parental participation in the treatment of youth should be actively encouraged, and family members should be supported with sufficient information and training. Offering group or individual sessions to parents and/or caregivers (i.e., parent guidance sessions) may be helpful.

It is recommended that a family history be taken, when possible, to identify and treat any mental health or substance use issues requiring treatment in the youth's family. It should also be noted that not all youth have healthy or positive relationships with their family members and decisions to include family members in care should be made with an understanding of the family dynamic and the patient's wishes.

Family-based approaches have been found to be more effective in treating adolescent substance use than several other psychosocial treatment intervention approaches including cognitive behavioural therapy, group counseling, motivational interviewing, and psychoeducational therapy.\textsuperscript{64} These approaches are based on the influence that families have on child and adolescent development and seek to address family risk factors including poor problem-solving skills, lack of family cohesiveness, and poor communication in order to reduce drug use and problematic behaviours associated with it.\textsuperscript{20}

More information on family involvement in care can be found in the Families at the Centre document developed by the Family Mental Health and Substance Use Task Force. Family members who have been impacted by addiction can be referred to the BCCSU website for resources including support groups.

**Residential Treatment**

Evidence regarding residential treatment\textsuperscript{g} for OUD in youth is sparse. Residential treatment for adolescent SUDs more broadly is highly variable, with no clear consensus on models or characteristics of residential treatment.\textsuperscript{65} A retrospective study of adolescents in Turkey receiving treatment for OUD found that those who completed a buprenorphine/naloxone medication-assisted inpatient treatment for 8 weeks had higher retention rates and a higher probability of abstinence at 12 months compared to those who discontinued the buprenorphine/naloxone treatment prior to the end of the 8 weeks.\textsuperscript{67} A longitudinal comparison of young adults with OUD, opioid misuse, or no opioid use in residential treatment found that residential treatment with ongoing continuing care may be beneficial for young adults with OUD, but concludes that more research is needed.\textsuperscript{68} Additionally, the American Society of Addiction Medicine recommends that adolescents requiring medication-assisted withdrawal management receive residential treatment,\textsuperscript{69} which should be followed by intensive outpatient treatment.\textsuperscript{18} Outpatient services can slowly be tapered and then replaced by long-term maintenance and monitoring.\textsuperscript{18} More high quality evidence on residential treatment for youth with OUDs is needed. It should be noted that private programs frequently have a high associated cost which may present a barrier to accessing care for many individuals and families.

Some youth may choose abstinence-oriented recovery residences which provide supportive living environments where individuals in recovery can foster mutually supportive social networks and find support.

**Special Considerations**

**Capacity to Consent**

In British Columbia, youth under 19 years of age do not need parental consent in order to receive treatment. Capacity to consent for youth under 19 is determined based on the capacity to fully understand the treatment and possible consequences of treatment.\textsuperscript{70} A patient under 19 seeking treatment who is determined able to understand the treatment and give consent should not require parental permission or notification. Informed consent and discussion of rationale for treatment should be documented. For more information

\textsuperscript{g} This document uses an adapted definition of residential treatment from the Substance Abuse and Mental Health Services Administration (SAMHSA):

\textit{A direct service with multiple components that is delivered in a licensed facility used to evaluate, diagnose, and treat the symptoms of SUDs.}\textsuperscript{65}
on determining capacity to provide consent in those under 18, refer to guidance from the Canadian Medical
Protective Association and Royal College of Physicians and Surgeons of Canada.

Youth-Centered Environment and Approach

Several studies have found that adolescents and youth experience the adult-oriented environment of most
treatment services as a barrier to accessing and continuing treatment. Services aimed toward youth
should ensure that they are relevant, interesting, and accessible in order to engage patients in care. While,
generally, the elements that improve retention in adults also apply to youth (e.g., staff who are well-trained,
clear policies, and little turnover in staff), several youth-specific factors have been identified. These include
confidentiality of services, inclusion of family members, the opportunity to develop close relationships with
staff, use of pharmacological treatments when appropriate, a combination of pharmacological treatments and
psychosocial treatment interventions and supports, and ensuring treatment is provided without a pre-deter-
mined end date.

Adolescents receiving methadone maintenance treatment in the United States identified several factors that
impact adolescent engagement in treatment, including a reluctance to access treatment in locations popu-
lated by older patients who appeared to have more experience with substance use, as well as the relatability
of language and environment. Additionally, these adolescents underlined the necessity of separating from
peers and romantic partners who use drugs in order to succeed in treatment. However, these findings may
not generalize to all youth, some of whom may benefit from engaging in treatment in concert with their
romantic partners. Additionally, some street-involved youth may experience rules barring pets as a barrier
to accessing services. Inclusion of peer navigators and peer support may also support a youth-centered
approach, for example, by helping youth who may be ambivalent about receiving care from adult profession-
als who have not experienced OUD feel more comfortable accessing treatment. Peer support staff, with their
own lived experience of OUD, can offer hope, model problem-solving skills, and offer an example of the
benefits of participating in OUD treatment.

Considering the age range of clients and staff when referring youth may prove beneficial for patient retention
and the success of the treatment. This consideration should be extended to pharmacy services for youth
receiving OAT.

Transitioning into Adult-Oriented Care

In many locations, youth care is managed by the same few individuals in a community that may also manage
adults. In other locations with more youth-specific services, youth will transfer from youth-oriented services
into adult-oriented services. In these circumstances, the treating care provider (i.e., OAT prescriber) is likely
to remain consistent. Thus, they are uniquely positioned to help ensure that the youth transitions smoothly
into adult-oriented care.

Transfer of care to adult-oriented care should be planned in advance to ensure a gradual transition, ensuring
that patients are linked to equivalent services as they age out of youth care (e.g., housing, employment, and
other psychosocial supports).

In situations where the patient’s OAT prescriber will change as they transfer to adult services, it is important
to identify individuals who will continue to provide these services and arrange for the patient to meet the
new prescriber prior to ceasing the existing relationship to ensure continuity of care.

Co-Occurring Disorders

Surveys of adolescents with SUDs as well as samples of adolescents in treatment for substance use have
found that many (63-64%) have a co-occurring psychiatric disorder of varying severity, with conduct

Co-Occurring Disorders

Surveys of adolescents with SUDs as well as samples of adolescents in treatment for substance use have
found that many (63-64%) have a co-occurring psychiatric disorder of varying severity, with conduct
disorder (59%), depression (15%), and attention deficit hyperactivity disorder (ADHD) (13%) being the most common. Co-occurring disorders in adolescents are associated with higher rates of relapse, and relapse occurring more quickly than in adolescents with SUDs but no co-occurring disorders.

It is recommended that all youth with OUD be assessed for co-occurring disorders when possible and offered referral as needed and treatment when necessary. Those with co-occurring disorders should receive comprehensive and integrated treatment and continuing care, targeted to the particular co-occurring psychiatric disorder(s) present, including both pharmacological and psychosocial treatment interventions where indicated. Some co-occurring disorders may require referral to a specialist (i.e. moderate or severe) while others may be treated in primary care (e.g., mild to moderate depression and anxiety may not require referral to a psychiatrist or mental health service provider). The treatment plan should be based on severity rather than simply presence of a diagnosis. When co-occurring mental health disorders require treatment by a psychiatrist or other specialist, it is important that treatment approaches for OUD and the co-occurring disorder(s) be integrated, allowing for coordination in assessment, treatment planning and delivery, and monitoring of outcomes. In the absence of active suicidality, treatment for OUD can be initiated before in-depth assessment and treatment of co-occurring disorders. See Screening section below for additional detail on screening assessments recommended for co-occurring disorders.

For those youth who present with a co-occurring SUD and/or severe psychiatric disorder, or other diagnoses that may require specialist referral, referrals can be made to Foundry in communities where Foundry Centres exist, child and youth mental health and substance use services in each health authority, or the Provincial Youth Concurrent Disorders Program at BC Children's Hospital.

Drug-Drug Interactions

If patients are requiring psychiatric medication to manage or treat co-occurring disorders it is vital that drug-drug interactions be checked prior to prescribing. Potential contraindications for buprenorphine/naloxone include: benzodiazepines, opioid analgesics, and other CNS-depressants. Potential contraindications for methadone include: MAOIs, SSRIs, anti-psychotics including quetiapine fumarate (tradename Seroquel®), benzodiazepines, and other CNS-depressants.

Youth who have achieved abstinence or are in the process of medically-supported withdrawal should be frequently reassessed. Due to the possibility of pharmacological treatment with SSRIs increasing methadone concentrations and decreasing metabolism of methadone and buprenorphine when co-prescribed with certain SSRIs (as shown in in vitro trials), there may be utility in stabilizing a youth's opioid use disorder prior to initiating a trial of psychiatric medications such as SSRIs in the absence of clear evidence of pre-morbid psychiatric illness.

Drug-drug interactions can be looked up on the Drug Cocktails website or www.drugbank.ca.

Spectrum of Substance Use and Overdose Crisis

This guideline supplement recognizes a spectrum of substance use, ranging from beneficial to problematic to SUDs of varying severity. However, in the context of the current opioid overdose crisis, which is largely attributed to the adulteration of the street-drug supply with highly potent synthetic opioids, opioid use that may otherwise not be harmful is likely to substantially increase the risk of overdose and death. Thus, treatment decisions should be made in partnership with the patient and family (if applicable) with awareness of this increased risk.
Screening

This guideline supplement recommends the use of two different screening assessments. The GAIN-SS, which screens for substance use and co-occurring mental health disorders is preferentially recommended, with the CRAFFT, a substance use disorder screener, recommended in resource-challenged settings where administering the GAIN-SS is not feasible.

Youth, due to their younger age and shorter substance use trajectory, may not present to care having received an SUD or mental health diagnosis despite the presence of one or both. Thus, it is important to look for loss of function that may suggest a diagnosis in addition to any pre-existing diagnoses when screening for co-occurring disorders.

A) Screening for co-occurring disorders using the GAIN-SS: The Global Appraisal of Individual Needs-Short Screener (GAIN-SS), is a short screening tool that can be used to, relatively quickly, identify those individuals who are likely to have a disorder in one of three dimensions (internalizing, externalizing, or substance use, as well as crime/violence problems) and rule out those who most likely do not need services.\(^8^5\) A score of 3 or higher indicates a need for more in-depth assessment and intervention, while a score of 1-2 indicates a possible diagnosis.\(^8^5\) However, the GAIN-SS has not been validated for OUD in youth. The instrument, manual, and training resources can be accessed through the GAIN Coordinating Center. This guideline supplement recommends both SUDs and mental health issues be screened for, given the high rate of co-occurrence in youth\(^7^5\) (see Co-Ocurring Disorders in this document). Administration of the GAIN-SS may be more feasible where there are allied health providers, for example, in community health centres, family health teams, and multi-disciplinary walk-in clinics, as it takes more time to administer than the very brief CRAFFT. It may also be incorporated into existing intake assessments.

B) Screening in primary care and other resource-challenged settings using the CRAFFT: For individual primary care providers, or in rural and remote settings, an initial screen with the CRAFFT test may be more feasible than the GAIN-SS. This guideline supplement recommends that the CRAFFT test,\(^8^6\) a tool validated for screening adolescents for SUDs and related problems (though not specifically OUD), be used in primary care settings for initial screening of SUDs (see Appendix 2) where routine use of the GAIN-SS is not feasible. A score of 2 or higher indicates the need for further assessment,\(^8^7\) using the DSM-5 clinical diagnostic criteria for OUD, which can be found in Appendix 1. It should be noted that DSM-5 diagnostic criteria for OUD has not been validated in adolescents, and that there is a possibility of under- or over-diagnosis when using these criteria. Because of this, a more thorough evaluation of risks and impacts on functionality is recommended in cases where a diagnosis of OUD is unclear.

In addition to the above screening tools, a longitudinal history focused on loss of function due to mental health symptoms and family history focused on mental health and addiction is recommended for those diagnosed with an SUD or co-occurring disorders. Screening for adverse childhood experiences (ACES; which include problematic substance use or mental illness in the home; physical, sexual, emotional abuse or neglect; domestic violence; parental separation or divorce; and having a family member in jail or prison\(^8^8\)) may be useful in young adults. Although Canadian numbers are not available, American studies have found that over half (54%) of adolescents (12-17 years) have been exposed to one or more ACEs, while over a quarter (28%) have been exposed to at least two.\(^8^8\) A higher number of ACES has been associated with a

\(^{h}\) Note: As there is a licensing fee for the GAIN-SS, we have not included it as an appendix. For paper-only administration, there is a $100 USD fee that covers five years of use. For digital administration using the GAIN Assessment Building System (GAIN ABS), a one-time $100 USD agency setup fee and an additional fee of $252 USD per GAIN ABS user per year apply.
higher likelihood of substance use in adulthood. Although more research is needed, the existing literature on childhood experiences of abuse and brain development shows a negative effect on brain structure and function including affect regulation, motivation processing, response inhibition, and attention. The adolescent years represent an opportunity to mitigate the impacts of trauma (both short- and long-term), and thus identifying youth who have experienced trauma is an important first step. The ACES questionnaire can be found in Appendix 3. More information on ACEs can be found on the Centers for Disease Control and Prevention’s website.

As per the main provincial guideline, all youth with OUD should also be screened for HIV and hepatitis C. For other useful screening and assessment tools, see the following footnote.

Confidentiality

As with all medical care, confidentiality requirements should be followed when treating youth. This includes maintaining confidentiality from the youth’s parent(s) or legal guardian(s), unless the youth gives consent for their medical information to be shared with their parent(s) or other family members. It is important to discuss confidentiality with youth (and any family members involved in their care). This is particularly important during a first encounter with a young person or when beginning treatment for substance abuse, to ensure that youth have a clear understanding that their care will be kept confidential, while also understanding the limits to confidentiality (for example, duty to report, see the College of Physicians and Surgeons of British Columbia’s Professional Standards and Guidelines: Duty to Report or the B.C. Handbook for Action on Child Abuse and Neglect). If care is being kept confidential from parents or caregivers, the challenges and logistics of this should be discussed with the patient (for example, appointments and medication storage). If family members are aware of and involved in the youth’s care, they can share information with health care providers without violating confidentiality. The limits of confidentiality should be revisited frequently to ensure the youth has a good understanding.

Harm Reduction Strategies

Broadly defined, harm reduction refers to policies, programs, and practices that aim to reduce the adverse health, social, and economic consequences of licit and illicit substance use. In British Columbia, established harm reduction initiatives include needle/syringe distribution programs, overdose prevention with take-home naloxone, and supervised injection or consumption services. Including these harm reduction approaches within the continuum of addiction care provides additional mechanisms for promoting health and safety in diverse patient populations, including individuals who have difficulties achieving abstinence, or relapse to opioid use. There is substantial evidence that uptake of harm reduction services is associated with significant decreases in substance-related harms, including risky behaviours, HIV and hepatitis C infection, and overdose deaths. In addition, research has shown that participation in harm reduction services can promote entry into addiction treatment. For these reasons, if a patient is at risk of opioid-related harms, providing information and referrals to harm reduction services is a reasonable and appropriate clinical intervention.

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1 HEEADSSS is a mnemonic tool for conducting a psychosocial screen to assess the emotional, physical, and social well-being of youth. HEEADSSS is an acronym to guide assessment of 8 domains: Home, Education and employment, Eating, Activities, Drugs and alcohol, Sexuality, Suicidality, depression, and self-harm, and Safety from injury and violence. Example questions can be found in Appendix 5.

The General Anxiety Disorder-7 (GAD-7) is a brief screening tool which has been validated in adults in both primary care and the general population. It has not been validated specifically in adolescents, however, the study which validated the GAD-7 for the general population used individuals as young as 14 years old. The GAD-7 screening tool can be found in Appendix 6.

The Patient Health Questionnaire (PHQ-9) is a brief screening tool for assessing the presence and severity of depression. It has been validated in adolescents. The PHQ-9 can be found in Appendix 7.
decision, particularly in the current environment of heightened overdose risk. Youth may not recognize certain issues as harmful or potentially harmful, thus harm reduction services for youth should be both honest and informed by the context of youth's lives.

There are a number of actions clinicians can take to increase awareness of harm reduction services among patients, starting with routinely including information and education about harm reduction and safer injection practices when appropriate in discussions with patients and families. In order to provide informed referrals, clinicians should also be aware of harm reduction programs available in the local area and services provided. A current listing of harm reduction services that provide needles, syringes and other injection supplies, overdose prevention training, and take-home naloxone kits can be found on the Toward the Heart website. In addition, as part of the provincial response to the overdose crisis, emergency-use naloxone was recently unscheduled and deregulated in BC, and patients can be advised that naloxone may be purchased without a prescription at community pharmacies, healthcare sites, treatment centres and community agencies. There is no age restriction for accessing take-home naloxone kits. For individuals enrolled in Plan W (a new PharmaCare plan effective October 1, 2017, designed for First Nations persons in BC), naloxone (injectable and intranasal) and injection supplies remain covered through the federal Non-Insured Health Benefits program (NIHB) and are available at no-cost from any pharmacy that carries naloxone; no prescription or paperwork is required.

With these recent regulatory changes, community-based clinics should also consider providing naloxone kits and overdose prevention education directly to patients and families who would benefit.

Prevention

Although there is significant literature on school-based programs, mentoring, and personality-based prevention programs, for the prevention of alcohol and substance use, there is a paucity of literature on opioid-specific prevention for youth. A 2013 Cochrane review found some evidence for an association between mentoring and lower rates of drug use, although it did not specify opioid use. However, few well-designed studies have been conducted evaluating the potential effects of mentoring on drug use in youth. A 2014 Cochrane review of school-based prevention programs found small but consistent protective effects from programs that combined social competence and social influence approaches, but did not address opioid use specifically. The Substance Abuse and Mental Health Services Administration offers online substance use prevention training for families and advocates as well as professional care providers through the Center for the Application of Prevention Technologies Online Training Portal.

Pregnancy

For guidance on treating pregnant youth with OUD, see the BCCSU’s A Guideline for the Clinical Management of Opioid Use Disorder—Pregnancy Supplement.

LGBT2Q+ Youth

Lesbian, gay, bisexual, trans, Two-Spirit, queer, and other gender and sexually diverse individuals (LGBT2Q+) face unique challenges that should be addressed when providing care to LGBT2Q+ youth with SUDs. LGBT2Q+ individuals report disproportionate rates of substance use and enter treatment with greater severity of substance use problems. Suggested explanations for these disproportionate rates include the stress of being in a minority group, dealing with social prejudice and discrimination, internalized stigma, and lack of cultural competence in the health care system. Data on OUD specifically in LGBT2Q+ is
lacking, however, given the high rates of substance use in LGBT2Q+ individuals, OUD treatment should be culturally sensitive and aware of the issues that LGBT2Q+ youth are likely to face.

Strategies for working with LGBT2Q+ youth include actively communicating that services are available for LGBT2Q+ clients, establishing contacts within the LGBT2Q+ community, and using inclusive language in forms and clinical materials. Although substance use treatment for LGBT2Q+ individuals is similar to that for other populations, additional factors must be considered, including addressing the patient's feelings about their sexual and gender identities and the impacts of stigma and discrimination in their lives. LGBT2Q+ individuals may also have experienced discrimination in the health care system and thus require extra sensitivity from health care providers in order to build trust. A list of support groups for LGBT2Q+ individuals in BC can be found here. Additional information and guidance can be found in the Substance Abuse and Mental Health Services Administration's publication, *A Provider's Introduction to Substance Abuse Treatment for Lesbian, Gay, Bisexual, and Transgender Individuals*.

A non-judgmental attitude, active demonstration of awareness and sensitivity of trans issues, and a reinforcement of confidentiality can help young trans people feel safe approaching care providers. Other ways to demonstrate transgender awareness and sensitivity include placing trans inclusive brochures and posters (e.g., from the Transgender Health Information Program) in waiting rooms, asking about gender identity on intake forms, and using open-ended questions about sexuality and gender. More information on working with trans, two-spirit, and gender diverse youth can be found in Trans Care BC's *Gender-affirming Care for Trans, Two-Spirit, and Gender Diverse Patients in BC: A Primary Care Toolkit*. Additional resources include the Trans Speciality Care Program and Transgender Health Information Program.

**Specialist Consultation**

Prescribers who require additional support in treating youth with OUD may consult addictions specialists through the Rapid Access to Consultative Expertise (RACE) line. If administration of pharmacotherapy to this patient population is beyond scope of practice or expertise, care providers should refer such patients to a health care professional with experience in treatment of adolescents with SUDs. Prescribers who do not have the capacity to treat concurrent mental health disorders may refer to Foundry, which is in the process of building a provincial network of integrated health and social services for youth aged 12-24, or child and youth mental health and substance use services in each health authority.

Prescribers wanting additional education and training on treating OUD in youth may complete the Youth module of the Provincial Opioid Addiction Treatment and Support Program (POATSP) and/or complete a preceptorship through the POATSP program with a physician experienced in treating youth.
Future Directions and Evidence Gaps

Due to the limited research on SUDs in youth, and specifically OUDs, there are several evidence gaps that should guide future research. These opportunities for research include the impact of substance use on brain development in adolescence; the efficacy of extended release naltrexone in youth with OUD; strategies for effectively tapering OAT and when transitioning off of OAT is appropriate; effective early intervention strategies; efficacy of non-pharmacological approaches for youth with OUD (e.g., contingency management); efficacy of residential treatment for youth with OUD; factors that increase OAT retention in youth; and recovery-oriented systems of care for youth.
Appendix 1: DSM-5 Clinical Diagnostic Criteria for Opioid Use Disorder

While the DSM-5 clinical diagnostic criteria for OUD may provide a helpful framework for diagnosing adolescents, it should be noted that the criteria have not been validated in adolescents. There may be adolescents who do not meet the necessary criteria for a diagnosis yet have significant impairment and face high risk of overdose, making them good candidates for OUD treatment, including OAT. In cases where a diagnosis of OUD is unclear, a more thorough evaluation of risks and impacts on functionality is recommended.

<table>
<thead>
<tr>
<th>Clinical Diagnostic Criteria for Opioid Use Disorder</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Opioids are often taken in larger amounts or over a longer period than was intended</td>
</tr>
<tr>
<td>2. There is a persistent desire or unsuccessful efforts to cut down or control opioid use</td>
</tr>
<tr>
<td>3. A great deal of time is spent in activities necessary to obtain the opioid, use the opioid, or recover from its effects</td>
</tr>
<tr>
<td>4. Craving or a strong desire to use opioids</td>
</tr>
<tr>
<td>5. Recurrent opioid use resulting in a failure to fulfill major role obligations at work, school, or home</td>
</tr>
<tr>
<td>6. Continued opioid use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of opioids</td>
</tr>
<tr>
<td>7. Important social, occupational, or recreational activities are given up or reduced because of opioid use</td>
</tr>
<tr>
<td>8. Recurrent opioid use in situations in which it is physically hazardous</td>
</tr>
<tr>
<td>9. Continued use despite knowing of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by opioids.</td>
</tr>
<tr>
<td>10. Tolerance*, as defined by either of the following:</td>
</tr>
<tr>
<td>a) Need for markedly increased amounts of opioids to achieve intoxication or desired effect</td>
</tr>
<tr>
<td>b) Markedly diminished effect with continued use of the same amount of opioid</td>
</tr>
<tr>
<td>11. Withdrawal*, as manifested by either of the following:</td>
</tr>
<tr>
<td>a) Characteristic opioid withdrawal syndrome</td>
</tr>
<tr>
<td>b) Same (or a closely related) substance is taken to relieve or avoid withdrawal symptoms</td>
</tr>
</tbody>
</table>

*Patients who are prescribed opioid medications for analgesia may exhibit these two criteria (withdrawal and tolerance), but would not necessarily be considered to have an SUD.

References:
Appendix 2—CRAFFT Screening Interview

The CRAFFT test is a validated tool for screening youth for SUDs and related problems, although it has not been validated for opioid use specifically.

<table>
<thead>
<tr>
<th>C</th>
<th>Have you ever ridden in a car driven by someone (including yourself) who was “high” or had been using alcohol or drugs?</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>Do you ever use alcohol or drugs to relax, feel better about yourself, or fit in?</td>
</tr>
<tr>
<td>A</td>
<td>Do you ever use alcohol or drugs while you are by yourself, alone?</td>
</tr>
<tr>
<td>F</td>
<td>Do you ever forget things you did while using alcohol or drugs?</td>
</tr>
<tr>
<td>F</td>
<td>Do your family or friends ever tell you that you should cut down on your drinking or drug use?</td>
</tr>
<tr>
<td>T</td>
<td>Have you ever gotten into trouble while you were using alcohol or drugs?</td>
</tr>
</tbody>
</table>

**Scoring:** One point for each “yes” response. A total score of 2 or higher is a positive screen, indicating additional assessment is needed.
Appendix 3—Adverse Childhood Experiences (ACES) Questionnaire

While you were growing up, during your first 18 years of life:

1. Did a parent or other adult in the household often:
   Swear at you, insult you, put you down or humiliate you?
   or
   Act in a way that made you afraid that you might be physically hurt?
   Yes     No
   If yes, enter 1: _____

2. Did a parent or other adult in the household often:
   Push, grab, slap, or throw something at you?
   or
   Ever hit you so hard that you had marks or were injured?
   Yes     No
   If yes, enter 1: _____

3. Did a parent or person at least 5 years older than you ever:
   Touch or fondle you or have you touch their body in a sexual way?
   or
   Try to or actually have oral, anal, or vaginal sex with you?
   Yes     No
   If yes, enter 1: _____

4. Did you often feel that:
   No one in your family loved you or thought you were important or special?
   or
   Your family didn’t look out for each other, feel close to each other, or support each other?
   Yes     No
   If yes, enter 1: _____

5. Did you often feel that:
   You didn’t have enough to eat, had to wear dirty clothes, and had no one to protect you?
   or
   Your parents were too drunk or high to take care of you or take you to the doctor if you needed it?
   Yes     No
   If yes, enter 1: _____

6. Were your parents ever separated or divorced?
   Yes     No
   If yes, enter 1: _____

7. Was your mother or stepmother:
   Often pushed, grabbed, slapped, or had something thrown at her?
   or
   Sometimes or often kicked, bitten, hit with a fist, or hit with something hard?
   or
   Ever repeatedly hit over at least a few minutes or threatened with a gun or knife?
   Yes     No
   If yes, enter 1: _____

8. Did you live with anyone who was a problem drinker or alcoholic or who used street drugs?
   Yes     No
   If yes, enter 1: _____

9. Was a household member depressed or mentally ill or did a household member attempt suicide?
   Yes     No
   If yes, enter 1: _____

10. Did a household member go to prison?
    Yes     No
    If yes, enter 1: _____

Add up all ‘Yes’ answers: ______ This is your ACE score.
Appendix 4—Contingency Management Example

The following example is adapted from the Center for Substance Abuse Treatment’s Medication-Assisted treatment for Opioid Addiction in Opioid Treatment Programs.127

Contingency management strategy for abstinence from opioids:

1. Determine an easily measured target behaviour (e.g., abstinence from opioids).
2. Determine a non-monetary reward that can be delivered upon documentation of the desired behaviour. For example, three consecutive negative urine drug screens may result in non-refundable vouchers (e.g., movie passes or coffee cards).
3. Clearly define the link between the target behaviour and the reward (for example, one negative urine screen may be rewarded with one voucher).
4. Make a written contract that specifies the duration of the agreement and any changes over time.

It should be noted that frequency, timing, and magnitude of incentives are key factors in successfully changing behaviour, with more frequent rewards of larger incentives delivered as soon as possible after the targeted behaviour occurs being optimal.128 Additionally, using escalating rewards for continued meeting of targeted behaviour with rewards being reset when behaviour is missed (e.g., a positive urine screen) has been found to promote sustained abstinence.129,130 An example of this escalating schedule with contingent reset would be an addition of $0.50 to the value of a coffee card with each week of negative urine drug screens, with a positive urine drug screen getting no reward and a return to the baseline amount for the next set of negative urine drug screens.

Additional resources for implementing contingency management (also known as Motivational Incentives) including a training course and software can be found on the Better Tx Outcomes website maintained by the Blending Initiative, a joint initiative from the National Institute on Drug Abuse (NIDA) and the Substance Abuse and Mental Health Services Administration (SAMHSA).
The following example questions are borrowed and slightly modified from Smith and McGuinness (2017) and Goldenring and Rosen (2004). Additional and alternative questions can be found on Modern Medicine Network’s HEEADSSS Resource Centre website.

<table>
<thead>
<tr>
<th>Domain</th>
<th>Example Question</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Home</strong></td>
<td></td>
</tr>
<tr>
<td>Where do you live?</td>
<td></td>
</tr>
<tr>
<td>How long have you lived there?</td>
<td></td>
</tr>
<tr>
<td>Who lives with you?</td>
<td></td>
</tr>
<tr>
<td>What are relationships like at home?</td>
<td></td>
</tr>
<tr>
<td><strong>Education and employment</strong></td>
<td></td>
</tr>
<tr>
<td>What are your favourite and least favourite subjects at school?</td>
<td></td>
</tr>
<tr>
<td>Have you changed schools in the past few years?</td>
<td></td>
</tr>
<tr>
<td>Is your school a safe place? (Why?)</td>
<td></td>
</tr>
<tr>
<td>What are your grades like?</td>
<td></td>
</tr>
<tr>
<td>Are you working? (Where? How much?)</td>
<td></td>
</tr>
<tr>
<td>What are your future education/employment plans?</td>
<td></td>
</tr>
<tr>
<td><strong>Eating</strong></td>
<td></td>
</tr>
<tr>
<td>What do you like and not like about your body?</td>
<td></td>
</tr>
<tr>
<td>Have you ever worried about having enough food to eat?</td>
<td></td>
</tr>
<tr>
<td><strong>Activities</strong></td>
<td></td>
</tr>
<tr>
<td>How much TV do you watch each week?</td>
<td></td>
</tr>
<tr>
<td><strong>Drugs and alcohol</strong></td>
<td></td>
</tr>
<tr>
<td>Do any of your friends smoke? Drink alcohol? Use other drugs?</td>
<td></td>
</tr>
<tr>
<td>Have you ever tried smoking, drinking alcohol, or doing other drugs with your friends?</td>
<td></td>
</tr>
<tr>
<td><strong>Sexuality</strong></td>
<td></td>
</tr>
<tr>
<td>Tell me about the people that you’ve dated.</td>
<td></td>
</tr>
<tr>
<td>Have any of your relationships been sexual?</td>
<td></td>
</tr>
<tr>
<td>What does the term “safer sex” mean to you?</td>
<td></td>
</tr>
<tr>
<td><strong>Suicide, depression, and self-harm</strong></td>
<td></td>
</tr>
<tr>
<td>Have you ever thought about hurting yourself or someone else?</td>
<td></td>
</tr>
<tr>
<td>Have you lost interest in things that you used to really enjoy doing?</td>
<td></td>
</tr>
<tr>
<td><strong>Safety from injury and violence</strong></td>
<td></td>
</tr>
<tr>
<td>Do you always wear a seat belt when in a car?</td>
<td></td>
</tr>
<tr>
<td>Have you ever ridden with a driver who was drunk or high? (How often?)</td>
<td></td>
</tr>
<tr>
<td>Is there a lot of violence in your school? In your neighbourhood? Where you live?</td>
<td></td>
</tr>
<tr>
<td>Have you ever been picked on or bullied?</td>
<td></td>
</tr>
<tr>
<td>Have you ever felt the need to protect yourself? Do you still feel that way?</td>
<td></td>
</tr>
</tbody>
</table>
Appendix 6—GAD-7

The Generalized Anxiety Disorder-7 (GAD-7) is a brief screening tool for assessing generalized anxiety disorder. It has not been validated for use in those with OUD specifically.

<table>
<thead>
<tr>
<th>Over the last 2 weeks, how often have you been bothered by the following problems?</th>
<th>Not at all</th>
<th>Several days</th>
<th>More than half the days</th>
<th>Nearly every day</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Feeling nervous, anxious, or on edge</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>2. Not being able to stop or control worrying</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>3. Worrying too much about different things</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>4. Trouble relaxing</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>5. Being so restless that it is hard to sit still</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>6. Becoming easily annoyed or irritable</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>7. Feeling afraid as if something awful might happen</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

Total score: _______

Scores:

5: Mild anxiety
10: Moderate anxiety
15: Severe anxiety

A score of 10 or higher indicates the need for an expanded diagnostic evaluation.
Appendix 7—Patient Health Questionnaire (PHQ-9)

The Patient Health Questionnaire (PHQ-9) is a brief screening tool for assessing the presence and severity of depression. It has been validated in adolescents.

Over the last 2 weeks, how often have you been bothered by the following problems?

<table>
<thead>
<tr>
<th>Problem</th>
<th>Not at all</th>
<th>Several days</th>
<th>More than half the days</th>
<th>Nearly every day</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Little interest or pleasure in doing things</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>2. Feeling down, depressed or hopeless</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>3. Trouble falling asleep, staying asleep, or sleeping too much</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>4. Feeling tired or having little energy</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>5. Poor appetite or overeating</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>6. Feeling bad about yourself – or that you’re a failure or have let yourself or your family down</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>7. Trouble concentrating on things, such as reading the newspaper or watching television</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>8. Moving or speaking so slowly that other people could have noticed. Or, the opposite – being so fidgety or restless that you have been moving around a lot more than usual</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>9. Thoughts that you would be better off dead or of hurting yourself in some way</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

Column totals:  ____ +  ____ +  ____

Total: ______

10. If you checked off any problems, how difficult have those problems made it for you to do your work, take care of things at home, or get along with other people?

☐ Not difficult at all  ☐ Somewhat difficult  ☐ Very difficult  ☐ Extremely difficult

<table>
<thead>
<tr>
<th>Guide for Interpreting PHQ-9 Scores</th>
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<tbody>
<tr>
<td><strong>Score</strong></td>
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113. Poulin C. Harm Reduction Policies and Programs for Youth. Canadian Centre on Substance Use;2006.


