

PCO TRAINING
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 For Opioid Therapies

Co-occurring Psychiatric Illness and Substance Use in Youth

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American Academy of Pediatrics
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Providers' Clinical Support System

Opium Therapies (PCSSO)

- Grant funded by SAMHSA
- Coalition of professional organizations
- Overarching goal: To offer evidence-based trainings on the safe and effective prescribing of opioid medications in the treatment of pain and/or opioid addiction.
- AAP = 2 Webinars per grant year (6 total)
- www.pcso-o.org

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CME

CME credit is available for this Webinar upon completion of an evaluation.

More information will be provided near the end of this presentation.

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Speakers



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Educational Objectives

At the conclusion of this activity participants should be able to:

- ✓ Quickly screen for mental health symptoms in youth to identify the most common psychiatric problems
- ✓ Use screening tools when prescribing opioids for youth
- ✓ Incorporate both mental health and substance use screening into routine pediatric settings

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Mental Health Facts

CHILDREN & TEENS

Fact: 1 in 5 children ages 13-18 have, or will have a serious mental illness.¹

20% 20% of youth ages 13-18 live with a mental health condition ¹	11% 11% of youth have a mood disorder ¹	10% 10% of youth have a behavior or conduct disorder ¹	8% 8% of youth have an anxiety disorder ¹
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Source:  **NAMI**
 National Alliance on Mental Illness
www.nami.org

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Impact

- 50%** 50% of all lifetime cases of mental illness begin by age 14 and 75% by age 24.¹
- 10 yrs** The average delay between onset of symptoms and intervention is 8-10 years.¹
- 50%** Approximately 50% of students age 14 and older with a mental illness drop out of high school.¹
- 70%** 70% of youth in state and local juvenile justice systems have a mental illness.¹

Suicide

- 3rd** Suicide is the 3rd leading cause of death in youth ages 10 - 24.¹
- 90%** 90% of those who died by suicide had an underlying mental illness.²

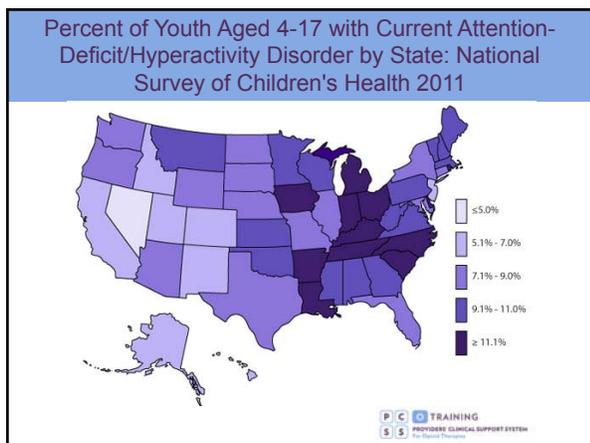
Source: **NAMI** National Alliance on Mental Illness www.nami.org

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Lifetime Prevalence and Age-of-Onset Distributions of DSM-IV Disorders in the National Comorbidity Survey Replication

- 9282 face-to-face surveys conducted from 2001-2003 with adults age 18 and older.
- Half of Americans will have a diagnosable mental illness in their lifetime.
 - 50% of cases occur by age 14
 - 75% of cases occur by age 24
- Median age of onset:
 - Anxiety d/o and impulse-control d/o – 11 years
 - SUD's – 20 years
 - Mood d/o – 30 years
- Lifetime prevalence:
 - Anxiety d/o – 29%
 - Impulse control d/o – 25%
 - Mood d/o – 21%
 - SUD's – 15%

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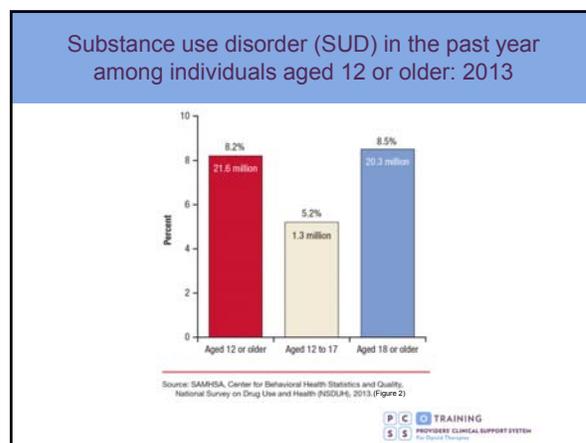
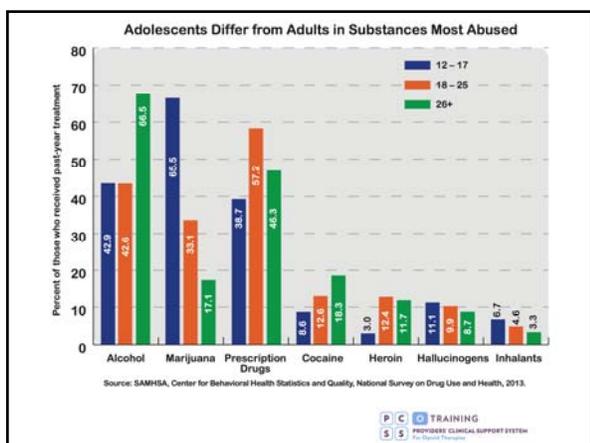


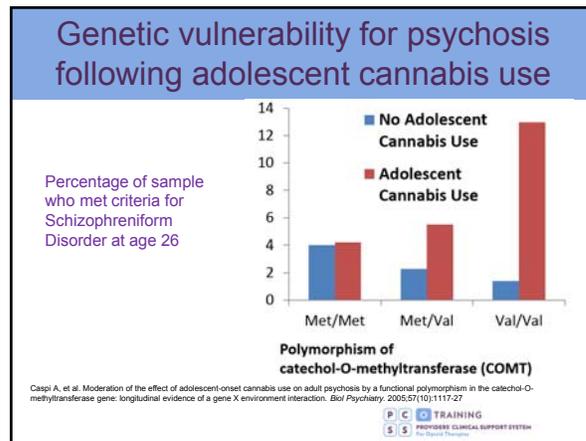
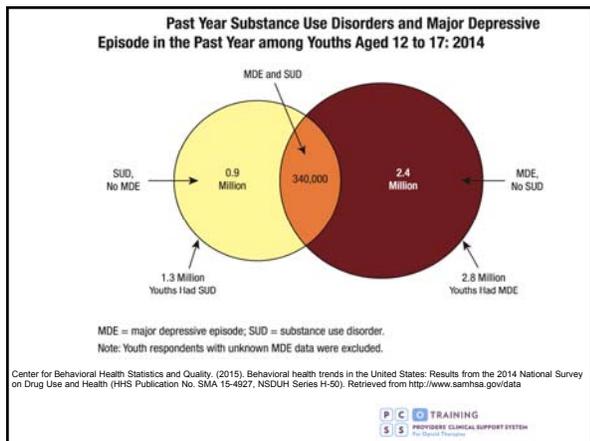
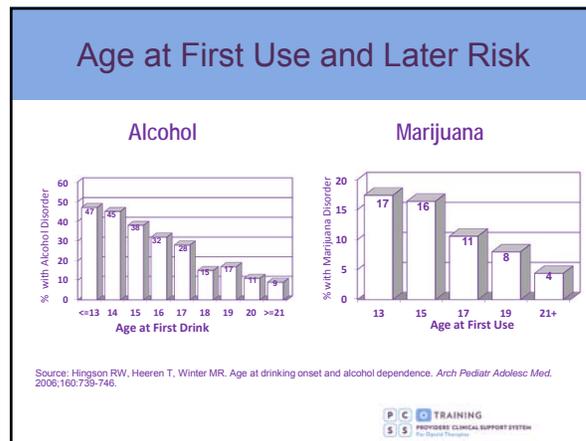
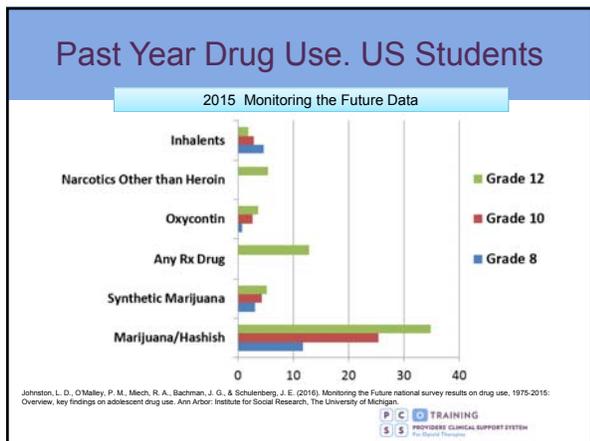
ADHD

- ADHD diagnosis is associated with almost doubled risk of accidental injury (and potential need for pain medication).
 - Medication treatment of ADHD is associated with decreased rates of injury (Dalsgaard, 2015)
- ADHD diagnosis is associated with increased rates of SUD development.
 - Research is inconsistent regarding effect of medication treatment for ADHD on eventual risk of SUD development (Kantak, 2016).
- ABUSE of stimulant medication is associated with increased risk of accidents and ER visits.

Dalsgaard S, et al. Effect of drugs on the risk of injuries in children with attention deficit hyperactivity disorder: a prospective cohort study. *Lancet Psychiatry*. 2015;2(8):752-759
Kantak KJ, Dworkin LP. Necessity for research directed at stimulant type and treatment-onset age to assess the impact of medication on drug abuse vulnerability in teenagers with ADHD. *Pharmacol Biochem Behav*. 2016;145:24-6

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Case: Acute Pain

- Bruce is a 15 year old boy with ADHD with a displaced femur fracture who will need post-op pain management.
- He tells you confidentially he has been "experimenting" with alcohol, marijuana, and cigarettes for 6 months, although his parents are not aware.
- His parents are concerned that he will be in pain and not able to do his physical therapy to make a full recovery.

Bruce: 15 y.o. boy using EtOH, MJ, cigarettes, s/p surgery

- What factors will you consider in prescribing for Bruce?
- How can you manage your concerns when discussing pain control with his parents while maintaining his confidentiality?
- Is there more information you need to make a plan?

Risk Factors for SUD development



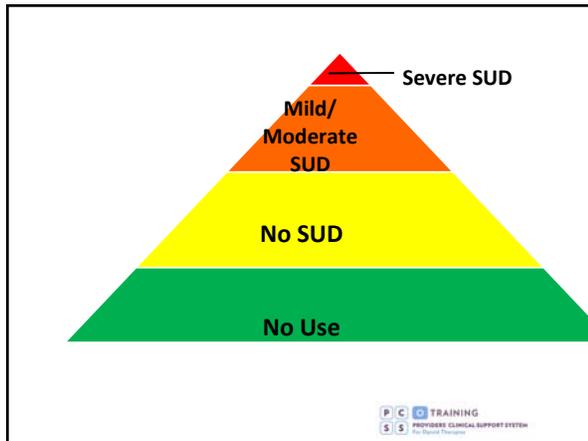
Risk Factors	Domain	Protective Factors
Early Aggressive Behavior	Individual	Self-Control
Lack of Parental Supervision	Family	Parental Monitoring
Substance Abuse	Peer	Academic Competence
Drug Availability	School	Anti-drug Use Policies
Poverty	Community	Strong Neighborhood Attachment

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S2BI: Screen to Brief Intervention

**Use FREQUENCY
to assess RISK**

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S2BI

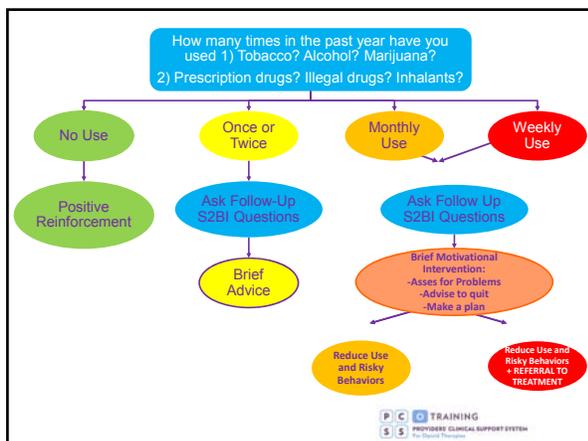
In the past year, how many times have you used

- Tobacco?
- Alcohol?
- Marijuana?

STOP if all "Never." Otherwise, CONTINUE.

- Prescription drugs that were not prescribed for you (such as pain medication or Adderall)?
- Illegal drugs (such as cocaine or Ecstasy)?
- Inhalants (such as nitrous oxide)?
- Herbs or synthetic drugs (such as salvia, "K2", or bath salts)?

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Sensitivity/Specificity of S2BI

CIDI-SAM interview vs. screen frequency item for detecting a substance use disorder; N=215.

Criterion Standard Dx	Screen Frequency	Sensitivity	Specificity
Any SUD	≥ Monthly use	90%	94%
Severe SUD	≥ Weekly use	100%	94%

Levy S, Zemnik R, Shirer L, Sherrill L, Spalding A. (2013). Using a brief assessment tool to identify substance use disorders in teens. AMERSA 37th Annual National Conference, Bethesda, MD.
Levy S, Weisz R, Sherrill L, Zemnik R, Spalding A, Van Hook S, Shirer LA. An electronic screen for flagging adolescent substance use by risk levels. JAMA Pediatr. 2014 Sep;168(9):822-8. doi: 10.1001/jamapediatrics.2014.774. PubMed PMID: 25070667. PubMed Central PMCID: PMC4270364.

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Bruce: 15 y.o. boy using EtOH, MJ, cigarettes, s/p surgery



- Using the S2BI screener, Bruce reports:
- Using cigarettes once at a party (it was "gross")
- Using alcohol 3 times to "get buzzed"
- Using marijuana 2 times
- He denies use of all "follow up" drug questions.

Give positive reinforcement for non-use of other drugs. Then move on to brief advice regarding current substances (covered in future webinar).

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www.aap.org/mentalhealth



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Mental Health Screening and Assessment Tool From AAP

Comprehensive list of screeners for PCP's for multiple conditions.
www.aap.org/mentalhealth/ScreeningChart

Parent/Family Screening						
Tools & Description	# of Items Format	Age Group	Admin & Scoring Time	Psychometric Properties	Cultural Consideration	Cost & Developer
PHQ-9 Patient Health Questionnaire 9 <i>Screening adults for depression</i>	9 items Self-report	Adult	<5 min to administer. Scoring <1 min	Excellent internal reliability. Cut-off score of 10 or more sensitivity: 88% for MDD Specificity: 88% for MDD	Not validated in languages other than English	Free! Accessible
PHQ-2 First 2 questions from PHQ-9 <i>Screening adults for depression</i>	2 items Self-report	Adult	1 min	Overall sensitivity: 83% to 87% specificity: 78% to 82%	Not validated in languages other than English	Free! Accessible

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PHQ-9 / PHQ-2

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

Not at all – Several days – More than half the days – Nearly every day

- Little interest or pleasure in doing things
- Feeling down, depressed, or hopeless
- Trouble falling or staying asleep, or sleeping too much
- Feeling tired or having little energy
- Poor appetite or overeating
- Feeling bad about yourself — or that you are a failure or have let yourself or your family down
- Trouble concentrating on things, such as reading the newspaper or watching television
- 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
- Thoughts that you would be better off dead or of hurting yourself in some way

If you checked off any problems, how difficult have these problems made it for you to do your work, take care of things at home, or get along with other people?
Not difficult -Somewhat -Very -Extremely

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Mental Health Screening and Assessment Tool From AAP

Comprehensive list of screeners for PCP's for multiple conditions.
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General Psychosocial Screening Tests						
Tools & Description	# of Items Format	Age Group	Admin & Scoring Time	Psychometric Properties	Cultural Consideration	Cost & Developer
PHQ-17 Pediatric Symptom Checklist 17 items <i>General psychosocial screening and functional assessment in the domains of activities, somatization, and internalizing symptoms</i>	17 items Self-admin	4 - 16 y	<5 min Scoring: 2 min	Subscales have obtained reasonable agreement with validated and accepted parent report instruments.	English, Spanish, Chinese (reading level: fifth to sixth grades)	Free! Accessible
PHQ-25 Pediatric Symptom Checklist 25 items <i>General psychosocial screening and functional assessment in the domains of activities, somatization, and internalizing symptoms</i>	25 items Self-admin	4 - 16 y	>5 min Scoring: 1 to 2 min	General psychosocial screen Sensitivity: 80% to 85% Specificity: 83% to 100%	English, Spanish, Chinese (reading level: preschool to middle school)	Free! Accessible

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Pediatric Symptom Checklist

Emotional and physical health go together in children. Because parents are often the first to notice a problem with their child's behavior, emotions or learning, you may help your child get the best care possible by answering these questions. Please mark under the heading that best fits your child.

<input type="checkbox"/> Complains of aches/pains <input type="checkbox"/> Spends more time alone <input type="checkbox"/> Tires easily, has little energy <input type="checkbox"/> Fidgety, unable to sit still <input type="checkbox"/> Has trouble with a teacher <input type="checkbox"/> Less interested in school <input type="checkbox"/> Acts as if driven by a motor <input type="checkbox"/> Daydreams too much <input type="checkbox"/> Distracted easily <input type="checkbox"/> Is afraid of new situations <input type="checkbox"/> Feels sad, unhappy <input type="checkbox"/> Is irritable, angry <input type="checkbox"/> Feels hopeless <input type="checkbox"/> Has trouble concentrating <input type="checkbox"/> Less interest in friends <input type="checkbox"/> Fights with others <input type="checkbox"/> Absent from school <input type="checkbox"/> School grades dropping	<input type="checkbox"/> Is down on him or herself <input type="checkbox"/> Visits doctor with doctor finding nothing wrong <input type="checkbox"/> Has trouble sleeping <input type="checkbox"/> Worries a lot <input type="checkbox"/> Wants to be with you more than before <input type="checkbox"/> Feels he or she is bad <input type="checkbox"/> Takes unnecessary risks <input type="checkbox"/> Gets hurt frequently <input type="checkbox"/> Seems to be having less fun <input type="checkbox"/> Acts younger than children his or her age <input type="checkbox"/> Does not listen to rules <input type="checkbox"/> Does not show feelings <input type="checkbox"/> Does not understand other people's feelings <input type="checkbox"/> Teases others <input type="checkbox"/> Blames others for his or her troubles <input type="checkbox"/> Takes things that do not belong to him or her <input type="checkbox"/> Refuses to share
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Bruce: 15 y.o. boy using EtOH, MJ, cigarettes, s/p surgery



- You continued opioid pain medications for 1 week and asked Bruce to follow up with you.
- At the follow up visit, PHQ-9 scored as moderate symptoms
 - "feeling down, depressed, or hopeless" was marked "nearly every day."
 - Bruce reports feeling "down." He denies thoughts of harming himself or killing himself.
 - He denies substance use since his last visit. You advise Bruce to continue avoiding drugs and alcohol during his recovery to due to potential for making depression worse and slowing healing.
 - You make a plan with Bruce and his parents. If he feels worse or has thoughts of self-harm he will tell his parents (or a teacher if at school) and call your office or go to the ER.
- You make a follow up visit in 2 weeks to check in again on depressive symptoms to see if they are improving as Bruce discontinues pain medications and resumes his regular activities.
 - You ask your office staff to give Bruce and his parents Pediatric Symptom Checklists to fill out in the waiting room prior to the next visit.



Therapeutic Use Is Still Exposure

Any legitimate opioid use prior to 12th grade confers:

- one-third higher risk of non-medical use in emerging adulthood (19-23 years)
- 2.7 fold higher risk of nonmedical use for the purpose of "getting high"

Miech R, Johnston L, O'Malley PM, Keyes KM, Heard K. Prescription opioids in adolescence and future opioid misuse. *Pediatrics*. 2015;136(5):e1169-e1177



What?

Patients at higher risk for substance use disorder are more likely to receive chronic opioid therapy

Richardson LR, Russo JE, et al. Mental health disorders and chronic opioid use among adolescents and young adults with chronic pain. *J Adolescent Health*. 2012;50(6):553-8



Psychiatric Symptoms Enhance Vulnerability

Youth with **preexisting mental health** diagnoses had

- 2.4-fold** increased risk of receiving long-term opioids versus no opioids and
- 1.8-fold** increased likelihood of receiving long-term opioids versus some opioids

Richardson LR, Russo JE, et al. Mental health disorders and chronic opioid use among adolescents and young adults with chronic pain. *J Adolescent Health*. 2012;50(6):553-8



Transition to Heroin Use

Nonmedical Rx opioid use initiated at **10-12** years confers **1.84** fold increased risk of IV heroin use in emerging adulthood

Nonmedical Rx opioid use initiated at **13-15** years confers **1.59** fold increased risk of IV heroin use in emerging adulthood

Magdalena C et al (2015). *Nonmedical Prescription Opioid Use in Childhood and Early Adolescence Predicts Transitions to Heroin Use in Young Adulthood: A National Study* *J Pediatr* 167 (3): 605-12



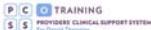
Pediatric Screening Resources

- AAP Bright Futures Periodicity Schedule: <http://pediatrics.aappublications.org/content/pediatrics/133/3/568/F1.large.jpg>
- AAP SBIRT Policy: <http://pediatrics.aappublications.org/content/128/5/e1330>
- Pediatric Substance Use Education and Tools: www.teensubstancescreening.org



Risk Scales for Chronic Opioid Prescribing

- www.partnersagainstpain.com/printouts/Opioid_Risk_Tool.pdf
- http://integratedcare-nw.org/DIRE_score.pdf



Changes You May Wish to Make in Practice

- Weigh both effectiveness and need to reduce suffering against future risk: are opioids the best option?
- If you don't already, screen for mental health symptoms at every pediatric visit at least beginning by age 11
- If you don't already, screen for substance use, at least beginning by age 11, at any encounter where opioids are being prescribed



Q&A

Chat

Chat Questions Answered

Type message here

Chat Chat Participants

Send

- Please use the chat box to submit a question for the speakers.
- Next Webinar: June 29, 2016
 - "Rational Pain Management in Children With Chronic Medical Conditions"
- Obtaining CME
 - After the event, you will receive a link taking you to an evaluation. Upon completion, you will be emailed your CME certification.

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 ♦ The AAP designates this live activity for a maximum of 1.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
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 ♦ This program is accredited for 1.0 NAPNAP CE contact hours of which 0 contain pharmacology (Rx), 0 related to psychopharmacology, 0 related to controlled substances, content per the National Association of Pediatric Nurse Practitioners (NAPNAP) Continuing Education Guidelines.



PCSS-O Colleague Support Program and Listserv

- PCSS-O Colleague Support Program is designed to offer general information to health professionals seeking guidance in their clinical practice in prescribing opioid medications.
- PCSS-O Mentors comprise a national network of trained providers with expertise in **addiction medicine/psychiatry and pain management**.
- Our mentoring approach allows every mentor/mentee relationship to be unique and catered to the specific needs of both parties.
- The mentoring program is available at no cost to providers.

For more information on requesting or becoming a mentor visit:
www.pcass-o.org/colleague-support

- **Listserv:** A resource that provides an "Expert of the Month" who will answer questions about educational content that has been presented through PCSS-O project. To join email: pcass-o@aaap.org.





PCSS-O is a collaborative effort led by American Academy of Addiction Psychiatry (AAAP) in partnership with: Addiction Technology Transfer Center (ATTG), American Academy of Neurology (AAN), American Academy of Pain Medicine (AAPM), American Academy of Pediatrics (AAP), American College of Physicians (ACP), American Dental Association (ADA), American Medical Association (AMA), American Osteopathic Academy of Addiction Medicine (AOAAM), American Psychiatric Association (APA), American Society for Pain Management Nursing (ASPMN), International Nurses Society on Addictions (InNSA), and Southeast Consortium for Substance Abuse Training (SECSAT).

For more information visit: www.pcass-o.org
 For questions email: pcass-o@aaap.org

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