

# **Wisconsin Public Psychiatry Network Teleconference (WPPNT)**

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# WPPNT Reminders

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- **Online:** <https://dhs.wi.zoomgov.com/j/1606358142>
- **Phone:** 669-254-5252
- Enter the Webinar ID: 160 635 8142#.
  - Press # again to join. (There is no participant ID)

## Reminders for participants

- Join online or by phone by 11 a.m. Central and wait for the host to start the webinar. Your camera and audio/microphone are disabled.
- [Download or view the presentation materials](#). The evaluation survey opens at 11:59 a.m. the day of the presentation.
- Ask questions to the presenter(s) in the Zoom Q&A window. Each presenter will decide when to address questions. People who join by phone cannot ask questions.
- Use Zoom chat to communicate with the WPPNT coordinator or to share information related to the presentation.
  
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# Working with Sleep Disturbance from a Co-Morbid and Transdiagnostic Approach

Wisconsin Public Psychiatry  
Network Teleconference  
4/28/2022  
Meredith Rumble, PhD

# Learning Objectives

- Review importance of sleep and co-morbidity of sleep disturbance
- Identify benefits and overview of a transdiagnostic approach to sleep
- Describe the following:
  - Cross-Cutting Modules
  - Core Modules
  - Optional Modules
- Apply the following:
  - Cross-Cutting Modules
  - Core Modules
  - Insomnia (Improving Sleep Efficiency)

# Sleep is Important and a Common Co-Morbidity!

- Historically, sleep disturbance has been considered a secondary symptom of psychiatric disorders, leading to the consequence of sleep disturbance being disregarded
- However, more recently, a large body of prospective studies has demonstrated a bidirectional relationships between sleep disturbance and psychiatric disorders
  - Most evidence to support insomnia's bidirectional relationship with depression, anxiety, alcohol abuse, psychosis, and suicidality
  - That is, sleep disturbance is a common **\*\*co-morbidity\*\***

Freeman et al., Lancet Psychiatry (2017) 4: 749-758.  
Hertenstein et al., Sleep Med Rev (2019) 43: 96-105.  
Rössler et al., Front Psychiatry (2018) 9: 320.

# Example:

## Behavioral sleep intervention helpful in context of co-morbidity

- Meta-analysis of Cognitive Behavioral Therapy (CBT) for Insomnia in those with co-morbid alcohol dependence, depression, PTSD, and mixed psychiatric diagnoses
  - Findings: Medium to large effects for insomnia outcomes and modest effects on psychiatric symptom outcomes

Wu et al (2015). JAMA Intern Med, 175,1461-1472.

- RCT examining Internet-based delivery of CBT for Insomnia versus treatment as usual in 3755 college students in the UK reporting insomnia symptoms
  - Findings: Significantly less insomnia symptoms and reduced paranoia, hallucinations, depressive symptoms, and anxiety symptoms

Freeman et al (2017). Lancet Psychiatry, 4, 749-758.

# Example:

## DSM-5 criteria for Insomnia Disorder

- One or more:
  - difficulty initiating sleep
  - difficulty maintaining sleep
  - waking up too early
- Sleep difficulty occurs:
  - despite adequate opportunity for sleep
  - at least 3 nights a week
  - at least 3 months
- Daytime consequences
- Not explained by another sleep-wake disorder or substance use
- Co-existing mental disorders and medical conditions do not adequately explain the predominant complaint of insomnia

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# A Transdiagnostic Approach

- Transdiagnostic Sleep and Circadian Intervention (TranS-C)
  - Book:
    - Harvey, A., & Buysse, D. (2018). Treating sleep problems: A transdiagnostic approach. Guildford Press: New York.
- What are some advantages specific to TranS-C?
  - Based on evidence-based behavioral sleep interventions
  - Modular approach, which offers flexibility and customization
  - Has been tested in adult community mental health center populations with co-morbidities such as schizophrenia, bipolar disorder, PTSD, and depression
    - e.g., Harvey et al. (2021) *J of Consult Clin Psychol* 89:537-550.
  - Has been tested in youth as young as 10-18 years old with more delayed sleep phase issues
    - e.g., Dong et al. (2020). *J of Child Psychol and Psychiat* 61:653-661.
  - Designed to be given in 50-minute visits over the course of 4-10 visits—a frequency of every 2 weeks works well for these interventions

# TranS-C Overview

## Cross-Cutting Modules

Case Formulation

Psychoeducation

Behavior Change and Motivation

Goal Setting

## Core Modules

Consistency in Sleep-Wake Schedule

Rise-Up and Wind-Down Routines

Coping with Daytime Symptoms

Unhelpful Sleep-Related Beliefs

Maintenance

## Additional Modules

- Insomnia
- Excessive Time in Bed
- Delayed/Advanced Sleep Phase
- Sleep-Related Worry and Vigilance
- Adherence to PAP Therapy
- Working with the Sleep Environment
- Nightmares

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# Cross-Cutting Modules

- Case formulation

- What brings you here today and what keeps things stuck?

- Education

- Can I offer some information that may be helpful in considering changes and goals?

- Behavior change and motivation

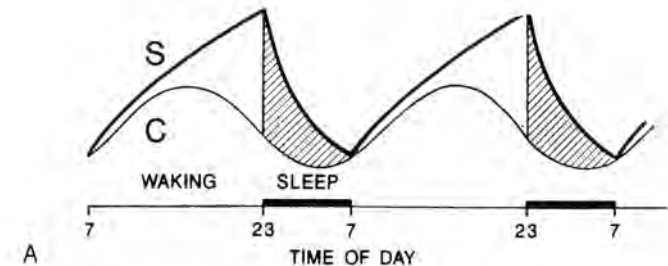
- What do you want to change and what makes you want to make this change?

- Goal setting

- Do you want to set a goal that helps you with this desired change?

Sleep Diary ID/Name: \_\_\_\_\_

Sample								
Today's date	4/5/08							
1. What time did you get into bed?	10:15 p.m.							
2. What time did you try to go to sleep?	11:30 p.m.							
3. How long did it take you to fall asleep?	1 hour 15 min.							
4. How many times did you wake up, not counting your final awakening?	3 (times)							
5. In total, how long did these awakenings last?	1 hour 10 min.							
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## Core Modules

- Establishing regular sleep-wake times
  - Rationale: One of the best ways to regulate our body's clock, which is central to not only sleep, but also to mood and many other important processes
- Learning a wind-down \*and\* a wake-up routine
  - Rationale for wind-down: The plane needs a gentle landing for sleep
  - Rationale for wake-up: Light, movement, and food are further inputs to help strengthen our body's clock ability to help us wake up

# Core Modules

- Improving daytime functioning (e.g., how to cope when feeling fatigued)
  - Rationale: How we cope with the impact of sleep, impacts sleep
- Working with unhelpful sleep-related beliefs
  - Rationale: How we think about sleep impacts how we sleep
    - “Sleep is a waste of time.”
    - “I have to get 8 hours.”
    - “If I don’t sleep, then X.”
- Maintenance of behavior change
  - What helped the most?
  - How did you stick with it?
  - What would you do if sleep disturbance returned?

## Additional Modules

- Insomnia (Improving Sleep Efficiency)
- Excessive Time in Bed
- Delayed/Advanced Sleep Phase
- Sleep-Related Worry and Vigilance
- Adherence to PAP Therapy
- Working with the Sleep Environment
- Nightmares

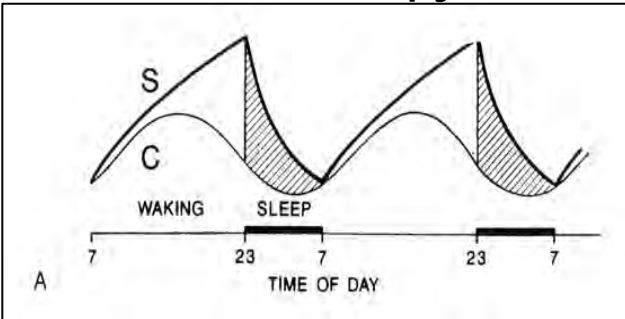
# Improving Sleep Efficiency

- This module is based off of stimulus control and sleep restriction
  - (AKA, our behavioral interventions superstars from CBT-I)
- A brief detour to CBT-I evidence base:
  - Well-established treatments:
    - Relaxation
    - Stimulus control
    - Sleep restriction therapy
    - Multi-component CBT-I
  - Not efficacious as a stand alone treatment:
    - Sleep hygiene only
    - Cognitive therapy only
- Multi-Component CBT-I typically includes:
  - Stimulus control
  - Sleep restriction therapy
  - Cognitive therapy
  - Sleep hygiene
  - Optional: Relaxation therapies



# A Cognitive-Behavioral Model of Insomnia

Cognitive  
Therapy



Cognitive Factors  
Sleep Effort  
Unhelpful Sleep-Related  
Thoughts & Beliefs

Sleep  
Hygiene

Stimulus Control

Homeostatic Dysregulation  
Sleep Extension

Circadian Disruption  
Irregular  
Sleep Scheduling

Inhibitory Factors  
Poor Sleep Hygiene  
Hyperarousal  
In-bed Habits  
Conditioned Arousal

Sleep Restriction

Relaxation  
Therapies

Chronic Insomnia

# Stimulus Control:

## **Reconditioning** the Bedroom with Sleeping & Setting the Body's Clock



- Rationale: Nighttime wakefulness is a learned habit and can be unlearned, and sleep is more predictable if the body's clock is strong and there's a fence around sleep
- Treatment:
  - Select a standard wake-up time
  - Avoid sleep-incompatible activities in bed
  - Get out of bed when unable to sleep and engage in calming activities
    - After 15-20 minutes if feeling relaxed
    - Directly if more activated
  - Avoid napping
  - Target bedtime and then only going to bed when sleepy

Bootzin (1972)

# Sleep Restriction Therapy: Increasing Sleep Drive & Setting the Body's Clock



- Rationale: It is all about the pizza dough or a balloon
- Treatment:
  - Patient completes sleep logs
  - Compute average total sleep time (TST)
  - Limit time in bed (TIB) to TST + 30 min
    - Best to never go below 5.5 hours
  - Increase TIB 15-30 min in follow-ups when sleep efficiency  $\geq 85\%$  and patient remains sleepy
  - Decrease TIB 15-30 min. in follow-ups when sleep efficiency is  $< 80\%$
  - No napping or dozing
  - Use great caution if using this treatment with individuals with bipolar disorder or a history of seizures

Spielman et al. (1987)

# Learning Objectives

- Review importance of sleep and co-morbidity of sleep disturbance
- Identify benefits and overview of a transdiagnostic approach to sleep
- Describe the following:
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  - Optional Modules
- **Apply the following:**
  - **Cross-Cutting Modules**
  - **Core Modules**
  - **Insomnia (Improving Sleep Efficiency)**

# Case Example:

## Chief Complaint & Sleep Co-Morbidities

- 58 year old female living with partner
- Chief sleep complaint: Difficulty initiating and maintaining sleep with hypersomnia during the day
- Onset: Current concerns started about 2-3 years ago when PAP therapy was discontinued for sleep apnea due to an insurance/provider change
- Sleep Co-Morbidities:
  - Sleep apnea
    - Restarted PAP therapy nightly; some benefit to hypersomnia, some issue with use
  - Delayed sleep preference

# Case Example:

## Other Co-Morbidities

- Medical Co-Morbidities
  - Obesity
- Psychiatric Co-Morbidities
  - Anxiety and Depression
    - Recently started anti-depressant and therapy with benefit
  - Complex Trauma History
    - Discussing with therapist about potential treatment options
  - History of Suicidal Ideation and Behavior
    - In context of past abusive relationship with multiple attempts

# Case Example: Other Themes

- Current relationship is supportive and good social support otherwise
- Has hesitancy with the medical community given changes made 2-3 years ago that have greatly impacted her
- Also, has the ability to form relationships with providers and is demonstrating motivation for change

# Cross-Cutting Modules

- Case formulation

- What brings you here today and what keeps things stuck?

- Education

- Can I offer some information that may be helpful in considering changes and goals?

- Behavior change and motivation

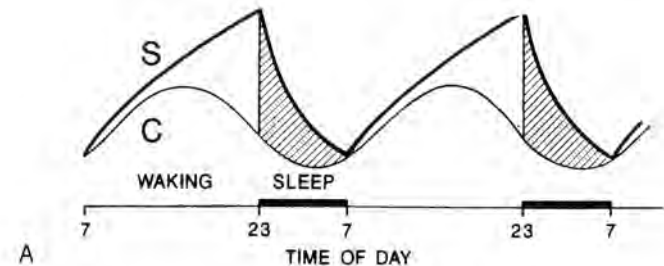
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- Goal setting

- Do you want to set a goal that helps you with this desired change?

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4. How many times did you wake up, not counting your final awakening?	3 (times)							
5. In total, how long did these awakenings last?	1 hour 10 min.							
6. What time was your final awakening?	6:35 a.m.							
7. What time did you get out of bed for the day?	7:20 a.m.							
8. How would you rate the quality of your sleep?	<input type="checkbox"/> Very poor <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Very good	<input type="checkbox"/> Very poor <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Very good	<input type="checkbox"/> Very poor <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Very good	<input type="checkbox"/> Very poor <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Very good	<input type="checkbox"/> Very poor <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Very good	<input type="checkbox"/> Very poor <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Very good	<input type="checkbox"/> Very poor <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Very good	<input type="checkbox"/> Very poor <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Very good





Avg time attempting sleep = ~10:45pm  
 Avg sleep onset latency = ~160 m  
 Avg wake time after sleep onset = ~60 m  
 Avg time awake for the day = ~8:40am

Avg total sleep time = 6.2 hours  
 Avg total wake time = 3.8 hours  
 Avg sleep efficiency = 61%

Consensus Sleep Diary (Core Items Only)

ID/Name: \_\_\_\_\_

Sample	Today's date	4/5/10	Fri	Sat	Sun	Mon	Tues	Wed	Thur
1. What time did you get into bed?	10:15 p.m.	10:25p	11:30p	11:30p	9:50pm	10:30p	12:00am	9:10pm	
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3. How long did it take you to fall asleep?	1 hour 15 min.	3 hrs.	minutes	1 hr.	6h 20m	4 hrs.	1hr.	3hr 30m	
4. How many times did you wake up, not counting your final awakening?	3 (times)	2	1	2	3	1	2	2	
5. In total, how long did these awakenings last?	1 hour 10 min.	40	5	80	120	60	40	60	
6. What time was your final awakening?	6:35 a.m.	9am	9:45a	9:30a	7a	7a	9am	9:30am	
7. What time did you get out of bed for the day?	7:20 a.m.	9am	9:45a	9:30a	7a	7a	9am	9:30am	
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First Treatment Visit

# Core Modules

- Set up a new sleep-wake schedule that better fits actual sleep pattern
  - this overlaps with improving sleep efficiency module so more details in a moment on this front
- Review wind down routine prior to new bedtime and wake-up routine after new wake-up time; indirectly working with sleep-related anxiety at bedtime with wind down routine
  - this overlaps with improving sleep efficiency module so more details in a moment on this front
- Process ways to cope with sleepiness during the day and in the evening prior to new bedtime
  - Coloring at her desk, watching favorite reality show sitting up on couch, engaging in active chores
- Reinforcing her motivation for change; providing opportunity for autonomy in making decisions with a collaborative spirit

## Additional Modules

- Insomnia (Improving Sleep Efficiency)
- Excessive Time in Bed
- Delayed/Advanced Sleep Phase
- Sleep-Related Worry and Vigilance
- Adherence to PAP Therapy
- Working with the Sleep Environment
- Nightmares

# Stimulus Control:

## Reassociating the Bedroom with Sleeping & Setting the Body's Clock

- Rationale: Nighttime wakefulness is a learned habit and can be unlearned, and sleep is more predictable if the body's clock is strong and there's a fence around sleep
- Treatment:
  - Select a standard wake-up time
  - Avoid sleep-incompatible activities
  - **Get out of bed when unable to sleep**
    - After 15-20 minutes if feeling relaxed
    - Directly if more activated
  - **Avoid napping**
  - Target bedtime and then only going to bed when sleepy

### *First Interventions:*

*Reading out of bed with option of reading some in bed to transition, keeping in mind the goal of this intervention*

*Napping has not been occurring with restart of CPAP therapy, so reinforcing this change*

Bootzin (1972)

# Sleep Restriction Therapy:

## Increasing Sleep Drive & Setting the Body's Clock

- Rationale: It is all about the pizza dough or a balloon
- Treatment:
  - Patient completes sleep logs
  - Compute average total sleep time (TST)
  - Limit time in bed (TIB) to TST + 30 min
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Spielman et al. (1987)

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Avg total sleep time = 6.2 hours  
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First Treatment Visit

Consensus Sleep Diary (Core Items Only) ID/Name: \_\_\_\_\_

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1. What time did you get into bed?	10:15 p.m.	10:25p	11:30p	11:30p	9:50pm	10:30p	12:00am	9:10pm
2. What time did you try to go to sleep?	11:30 p.m.	10:30p	11:35p	11:45p	10:00pm	10:40p	12:05am	9:15pm
3. How long did it take you to fall asleep?	1 hour 15 min.	3 hrs.	minutes	1 hr.	6h 20m	4 hrs.	1hr.	3hr 30m
4. How many times did you wake up, not counting your final awakening?	3 (times)	2	1	2	3	1	2	2
5. In total, how long did these awakenings last?	1 hour 10 min.	40	5	80	120	60	40	60
6. What time was your final awakening?	6:35 a.m.	9am	9:45a	9:30a	7a	7a	9am	9:30am
7. What time did you get out of bed for the day?	7:20 a.m.	9am	9:45a	9:30a	7a	7a	9am	9:30am
8. How would you rate your sleep quality?	<input type="checkbox"/> Very good	<input type="checkbox"/> Very poor	<input type="checkbox"/> Very poor	<input type="checkbox"/> Very poor	<input checked="" type="checkbox"/> Very poor	<input checked="" type="checkbox"/> Very poor	<input type="checkbox"/> Very poor	<input type="checkbox"/> Very poor
9. How would you rate your sleep quantity?	<input type="checkbox"/> Very good	<input type="checkbox"/> Very good	<input type="checkbox"/> Very good	<input type="checkbox"/> Very good	<input type="checkbox"/> Very good	<input type="checkbox"/> Very good	<input type="checkbox"/> Very good	<input type="checkbox"/> Very good

First intervention: Trying mild restriction with a bedtime of 11:30pm and wake-up time of 7:30am with option to move to 8am or 8:30am if too challenging

Two Weeks Later



Avg time attempting sleep = ~10:45pm; LV, ~10:45pm  
 Avg sleep onset latency = ~47 m; LV, 160 m  
 Avg wake time after sleep onset = ~75 m; LV, ~60 m  
 Avg time awake for the day = ~8:11am; LV, ~8:40am

Avg total sleep time = 7.5 h; LV, 6.2 h  
 Avg total wake time = 2.3 h; LV, 3.8 h  
 Avg sleep efficiency = 75%; LV, 61%

Consensus Sleep Diary (Core Items Only)

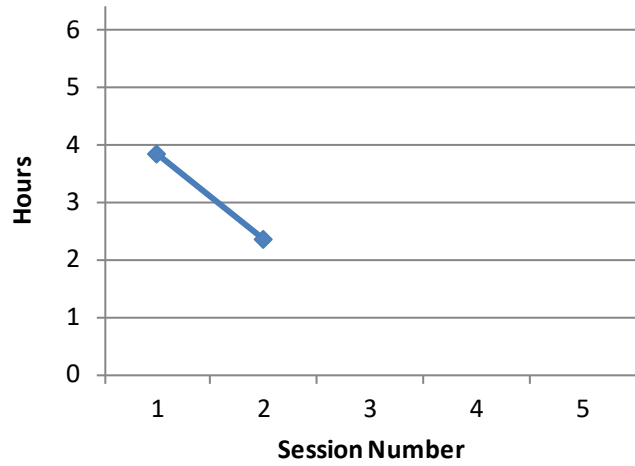
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1. What time did you get into bed?	10:15 p.m	11:00 pm	11:45 pm	10pm	10pm	9:30 pm	10 am	10:30 pm	
2. What time did you try to go to sleep?	11:30 p.m	11:30 pm	12 am	10:30 pm	10:15 pm	9:45 pm	10:05 am	10:45 pm	
3. How long did it take you to fall asleep?	1 hour 15 min.	45 m.	60 m	120 m	30 m	60	5 m	15	
4. How many times did you wake up, not counting your final awakening?	3 (times)	2	2	2	1	2	1	2	
5. In total, how long did these awakenings last?	1 hour 10 min.	100	90	90	40	100	5 m	100	
6. What time was your final awakening?	6:35 a.m.	9 am	10:30 am	6:50 am	7:00 am	5 am	10 am	9 am	
7. What time did you get out of bed for the day?	7:20 a.m	9 am	10:30 am	6:50 am	7:00 am	5 am	10 am	9 am	
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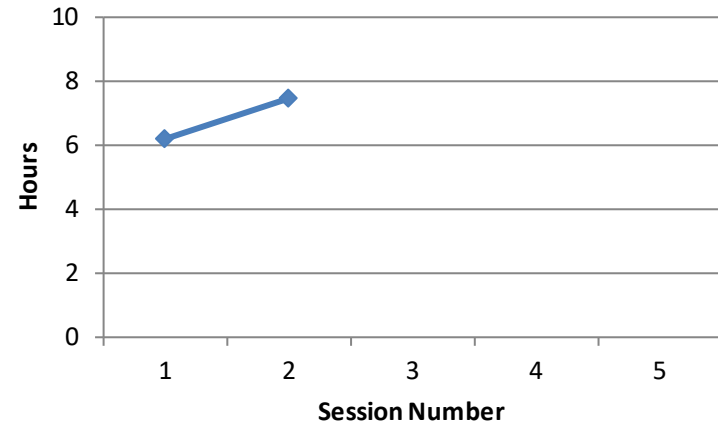
Second Treatment Visit



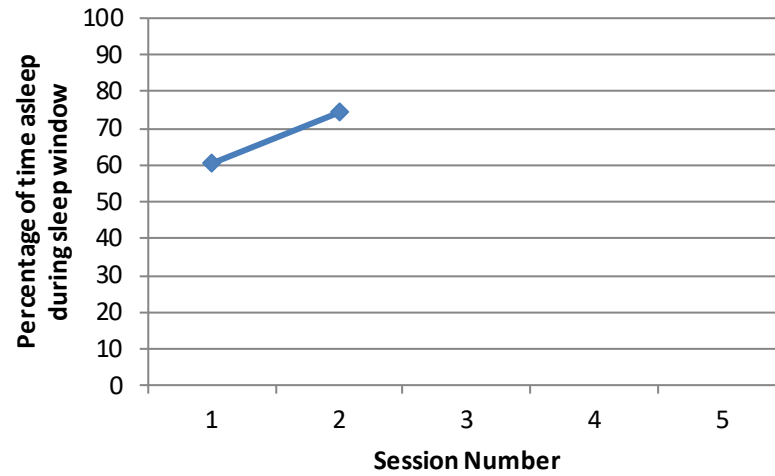
### Total Wake Time



### Total Sleep Time



### Sleep Efficiency



## Additional Modules

- Insomnia (Improving Sleep Efficiency)
- Excessive Time in Bed
- Delayed/Advanced Sleep Phase
- Sleep-Related Worry and Vigilance
- Adherence to PAP Therapy
- Working with the Sleep Environment
- Nightmares

# Summary

- Sleep is important
- Sleep is best considered in the context of a co-morbid model
- A transdiagnostic approach to sleep disturbance has many advantages in treating sleep in the co-morbid setting
- CBT for Insomnia is a powerful tool that has much to offer; additional behavioral sleep interventions are also available to help support sleep more broadly

# Resources

- Therapist Guide to the TranS-C
  - Harvey, A., & Buysse, D. (2018). Treating sleep problems: A transdiagnostic approach. Guildford Press: New York.
- Sleep log
  - <http://drcolleencarney.com/wp-content/uploads/2016/01/Final-CSD-Morning-only-with-instructions.pdf>
- CBT-I App for use with a therapist (free for all):
  - CBT-I Coach
    - Sleep log, psychoeducation, relaxation practices
- Bibliotherapy:
  - End the Insomnia Struggle by Colleen Ehrnstrom and Alicia Brosse (2016: New Harbinger)
    - Sleep log, discussion of broader sleep concerns, modular approach to insomnia treatment with option for patient to tailor treatment, extra interventions for an active mind