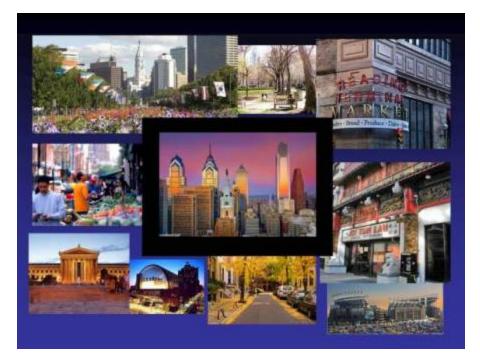


CBT-I 2014

Cognitive Behavioral Therapy for Insomnia

THURSDAY OCTOBER 30TH – SATURDAY NOVEMBER 1ST LOEWS HOTEL – PHILADELPHIA

Welcome to Philadelphia



Stuff to Consider Doing

Reading Terminal Market China Town South Philly Market The Theater District The Art Museum Old City

http://www.discoverphl.com http://phillyfunguide.com



CBT-I 2014 Cognitive Behavioral Therapy for Insomnia Thursday-Saturday, October 30th - November 1st 2014, Loews Hotel, Philadelphia PA

Day One Thursday, October 30, 2014

The first day is dedicated to an orientation to Sleep Medicine, the definition of insomnia and a review of basic etiology and pathophysiology, and a review of treatment approaches.

7:00 AM - 8:00 AM

Registration and Continental Breakfast / Exhibits

8:00 AM - 12:30 PM

Welcome Announcements / Orientation Sleep 101: Overarching Framework Signs and Symptoms of Sleep Disorders *Coffee Break / Exhibits* Definition of Insomnia Basic Etiology & Pathophysiology of Insomnia

12:30 PM - 1:30 PM Lunch (on your own)

1:30 PM - 5:00 PM

Treating Insomnia Part I (Review of Pharmacologic & CBT Options) Coffee Break / Exhibits Treating Insomnia Part II (Overview of CBT-I) Determination of Whether CBT-I is Indicated (vs. Diagnosis-Based Assessment)

5:00 PM - 6:00 PM

Additional time for above components Dedicated time for Questions and Answers

Day Two Friday, October 31, 2014

The primary focus of the second day will be the implementation of the core elements of eight-session CBT-I (Sleep Restriction, Stimulus Control, and Sleep Hygiene).

7:00 AM - 8:00 AM Continental Breakfast / Exhibits

8:00 AM - 12:30 PM

CBT-I Session-by-Session Review Orientation Session I – Intake Evaluation Coffee Break / Exhibits Session II – Treatment Initiation a) Sleep Restriction Procedures and Rationale b) Stimulus Control Procedures and Rationale

12:30 PM - 1:30 PM

Lunch (on your own)

1:30 PM - 5:00 PM Session III – Sleep Hygiene Sleep Hygiene Procedures and Rationale Coffee Break and Exhibits Session IV, VI & VII – Titration and Compliance Coffee Break and Exhibits

5:00 PM – 6:00 PM Additional time for above components Dedicated time for Questions and Answers

Day Three Saturday, November 1, 2014

The primary focus of the third day will be Cognitive Therapy, Relapse prevention, Practice Management, and case examples.

7:00 AM - 8:00 AM

Continental Breakfast / Exhibits

8:00 AM - 12:30 PM Session V – Cognitive Therapy for Insomnia Catastrophic Thinking (Discussion on Alternative Cognitive Treatments)

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Session VIII – Relapse Prevention

Practice Management & Billing (Marnie Shanbhag, PhD)

12:30 PM - 1:30 PM Lunch (on your own)

1:30 PM - 5:00 PM Case Examples General Discussion

5:00 PM – 6:00 PM Additional time for above components Dedicated time for Questions and Answers

Faculty

COURSE DIRECTOR AND SPEAKER



Michael L. Perlis, Ph.D.

Associate Professor of Psychology in Psychiatry, University of Pennsylvania

Director, Penn Behavioral Sleep Medicine Program, University of Pennsylvania

Adjunct Faculty, School of Nursing, University of Pennsylvania

Dr. Perlis is the primary lecturer for the seminar. He developed the course six years ago to provide clinicians from all walks of professional life the

education and tools they need to conduct CBT-I. Dr. Perlis has been continually updating the course material and course offerings since 2005. Over this course of this time the seminar has been given in venues around the world and has attracted increasingly multidisciplinary audiences. The seminar, according to Dr. Perlis, represents his best effort towards a singular goal: "Make CBT-I widely available".

Dr. Perlis is internationally known for his work in the area of Behavioral Sleep Medicine (BSM). He is a coauthor of the first text book in this field and he is the senior author of a published CBT-I treatment manual and a larger text summarizing all BSM treatments. His research includes neurocognitive phenomena in insomnia, the cognitive and/or behavior effects of sedative hypnotics and placebos, the development of alternative treatment approaches for insomnia, and sleep in depression. His work has been, and continues to be, funded by the National Institutes of Health and he has published over 100 articles and chapters on topics related to sleep research.

In addition to his academic endeavors, he has served on the editorial boards of Sleep, the Journal of Sleep Research, and the journal of Behavioral Sleep Medicine. Dr. Perlis has also served as a member, or chair, of several committees and task forces of the Sleep Research Society and the American Academy of Sleep Medicine. Currently, he is a founding member and was the first President of the Society of Behavioral Sleep Medicine.

DISCUSSANT



Donn Posner, PhD

Associate Professor of Psychiatry and Human Behavior, Brown University

Director, Behavioral Sleep Medicine, The Sleep Disorders Center of Lifespan Hospitals

Dr. Posner is nationally renowned as a master CBT-I therapist and clinical educator. His role in the seminar, this year and over the course of the last four years, is to 1) provide the "in clinic point

of view" on the didactic material being presented during the seminar, and 2) highlight and flesh out issues that arise during lectures or during the Question and Answer components of the course. Dr. Posner is also available throughout the seminar to provide one on one responses to questions and concerns.

Dr. Posner has been actively engaged in the treatment of sleep- disordered patients for the past twenty-one years. He sees a wide variety of patients, including those with Primary and Co-morbid Insomnia, Circadian Rhythm Disorders, Sleep Apnea, and Narcolepsy. In addition, half of his practice is involved with anxiety disorders and the behavioral treatment of such problems as Panic Disorder, Generalized Anxiety Disorder, Obsessive-Compulsive Disorder, Post-Traumatic Stress Disorder, and Social Phobia. For the last sixteen years he has served as the lead supervisor and mentor for a sleep medicine and anxiety disorders rotation in the Behavioral Medicine track of the Brown Clinical Psychology internship. He is a member of the American Academy of Sleep Medicine and became one of the first certified Behavioral Sleep Medicine specialists recognized by that group.

CONSULTANT AND LECTURER



Marnie G. Shanbhag, PhD, PA

Dr. Shanbhag joined the course last year to provide information on practice management, marketing, and billing.

Marnie Shanbhag is a licensed psychologist in private practice in Winter Park, Florida. Dr. Shanbhag specializes in health issues and corporate psychology and divides her time

between counseling individuals, couples, and employees and providing consultation services to local companies. Prior to private practice, Dr. Shanbhag served as the Executive Director of a nonprofit agency coordinating maternal and child health systems and taught at the University of Florida.

Dr. Shanbhag graduated from the University of Pennsylvania and earned her doctorate from the University of Florida after completing her psychology residency at the South Texas Veteran's Health Care System in San Antonio, Texas. She is a member of the American Psychological Association, the Florida Psychological Association, and serves on the Board of the Central Chapter of area psychologists. She can be reached at 407-644-5598 or MShanbhag@earthlink.net.

GUEST DISCUSSANT



Jason Ellis, PhD Professor, Department of Psychiatry, Northumbria University Director, Northumbria Centre for Sleep Research

Course Role(s): Dr. Ellis is an internationally prominent sleep researcher and an experienced CBT-I therapist. His role in the Basic Seminar, like Dr. Posner's, is to: 1) Provide the "in-clinic point of view" on the didactic material presented during the seminar, 2) Highlight and flesh out issues that arise during lectures or during the QnA components of the course, and 3) Provide "color commentary." Dr. Ellis, along with Drs. Perlis and Posner, is available throughout the

Basic Seminar to provide one-on-one responses to questions and concerns. His role in the Advanced Seminar is as both a lecturer and a discussion leader.

Background: Dr. Ellis is a Professor of Sleep Science and Director of the Northumbria Centre for Sleep Research in the United Kingdom. He splits his time between his basic research interests: the pathophysiology of sleep disorders (Insomnia, Restless Legs Syndrome, and Circadian Rhythm Disorders), the natural history of Insomnia, and his applied work on Cognitive Behavioral Therapy for Insomnia (CBT-I). Within the latter framework he examines the impact of novel adjunct therapies, the influence of social factors on adherence, and the effective delivery of CBT-I in complex cases. He has worked within the National Health Service in the United Kingdom, delivering CBT-I to individuals with a range of physical and psychological conditions and serves on the editorial board of *Behavioral Sleep Medicine*. He is a serious advocate of public engagement and professional education with regard to behavioral sleep medicine and regularly trains CBT-I to clinicians and primary care physicians in the United Kingdom.

Program Content provided by Michael Perlis et al Continuing Education credits provided by PESI, Inc.

Program Title: Principles and Practice of CBT-I (Basic Course)

Date: October 30-November 1, 2014

Location: Philadelphia, PA

PESI Program Code: 29301PHI (Please reference this code when contacting PESI regarding this program)

Duration of Instructional Content: 1350 minutes (total for 3 days)

COUNSELORS: PESI, Inc. is an NBCC-Approved Continuing Education Provider (ACEP[™]) and may offer NBCCapproved clock hours for events that meet NBCC requirements. The ACEP solely is responsible for all aspects of the program. ACEP#: 5637. This course qualifies for **15.0** contact hours for attending Day 1 & 2 only OR **22.5** contact hours for entire conference.

SOCIAL WORKERS: PESI, Inc. Provider #:1062, is approved as a provider for social work continuing education by the Association of Social Work Boards (ASWB), <u>www.aswb.org</u> through the Approved Continuing Education (ACE) Program. PESI, Inc. maintains responsibility for the program. ASWB Approval Period: January 27, 2014-January 27, 2017. Social workers should contact their regulatory board to determine course approval for continuing education credits. Social workers participating in this course will receive **15.0** (Clinical) per day for attending Day 1 & 2 only OR **22.5** (Clinical) continuing education clock hours for entire conference education clock hours in participating in this intermediate course. A certificate of attendance will be awarded at the end of the program to social workers who complete the program evaluation.

PSYCHOLOGISTS: PESI, Inc. is approved by the American Psychological Association to sponsor continuing education for psychologists. PESI maintains responsibility for this program and its content. PESI is offering this activity for 15.0 hours of continuing education credit for attending Day 1 & 2 only OR 22.5 hours of continuing education credit for entire conference. Full attendance is required; no partial credits will be offered for partial attendance.

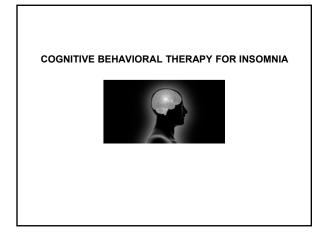
MARRIAGE AND FAMILY THERAPISTS: This activity consists of **900** minutes of continuing education instruction for attending Day 1 & 2 only OR **1,350** minutes of continuing education instruction for entire conference. Credit requirements and approvals vary per state board regulations. You should save this course outline, the certificate of completion you receive from the activity and contact your state board or organization to determine specific filing requirements.

ADDICTION COUNSELORS: PESI, Inc. is an approved provider of continuing education by the National Association of Alcoholism & Drug Abuse Counselors (NAADAC), provider #: 00131. Full attendance is required; no partial credit will be awarded for partial attendance. This course qualifies for 18.0 contact hours for attending Day 1 & 2 only OR 27.0 contact hours for entire conference.

NURSES/NURSE PRACTITIONERS/CLINICAL NURSE SPECIALISTS: This activity meets the criteria for a formally approved American Nurses Credentialing Center (ANCC) Activity PESI, Inc, is an approved provider by the American Psychological Association, which is recognized by the ANCC for behavioral health related activities. Full attendance is required; no partial credit will be awarded for partial attendance.

This activity qualifies for 15.0 contact hours for attending Day 1 & 2 only OR 22.5 contact hours for entire conference.

OTHER PROFESSIONS: This seminar qualifies for **15.0** continuing education clock hours for attending Day 1 & 2 only OR **22.5** continuing education clock hours for entire conference as required by many national, state and local licensing boards and professional organizations. Save your course outline and certificate of completion, and contact your own board or organization for specific requirements.









LECTURER

Michael L. Perlis PhD Associate Professor, Psychiatry & Nursing University of Pennsylvania

DISCUSSANT

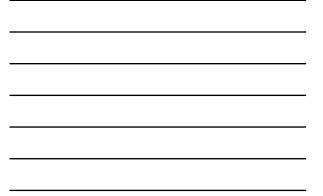
Donn Posner PhD Clinical Associate Professor of Psychiatry and Human Behavior, Alpert Medical School of Brown University Psychologist II, Veterans Affairs Palo Alto Health Care System

GUEST DISCUSSANT

Jason Ellis PhD Professor of Sleep Science Director of the Northumbria Centre for Sleep Research Department: Psychology





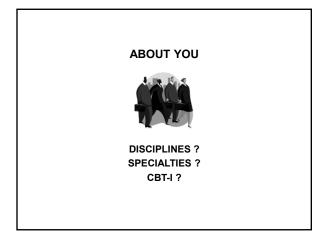


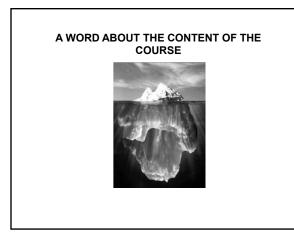
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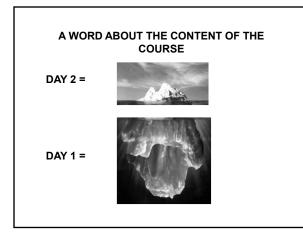
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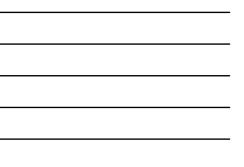
DONN POSNER, PH.D., CBSM

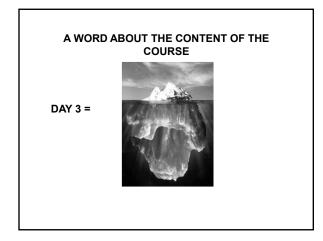
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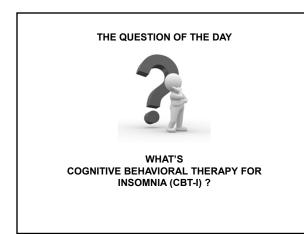


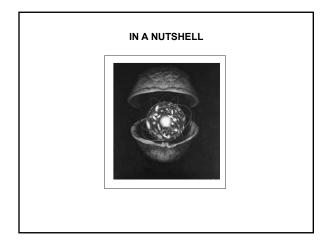


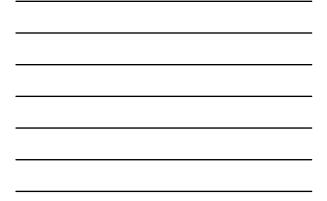


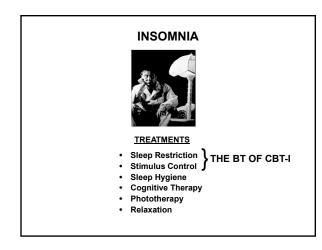


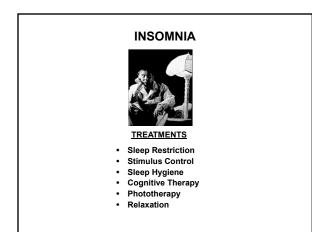
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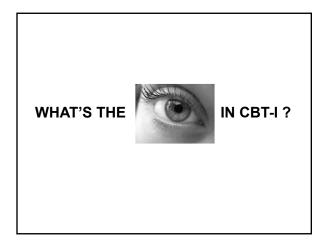




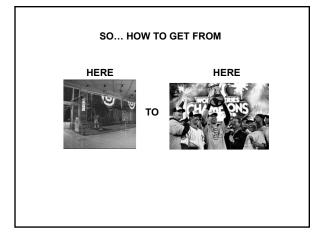






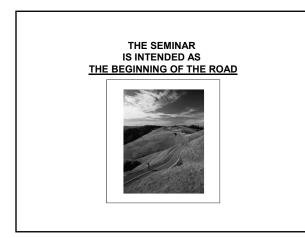












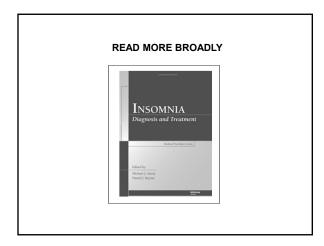




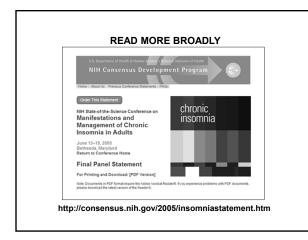
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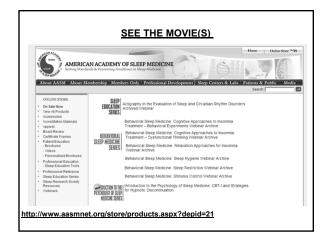


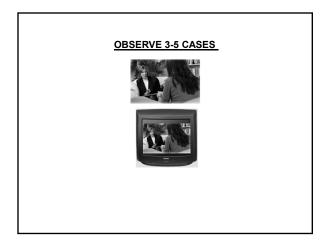


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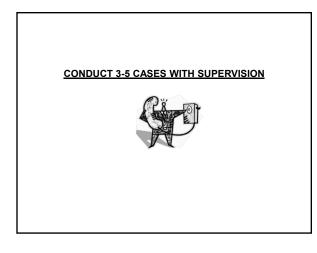


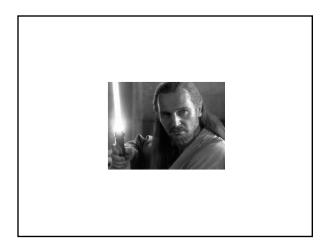


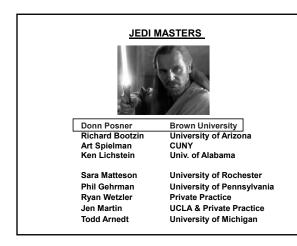






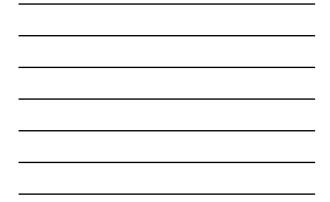


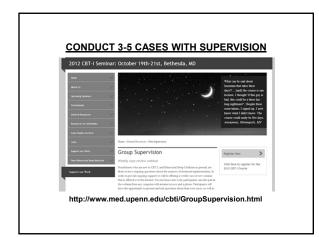




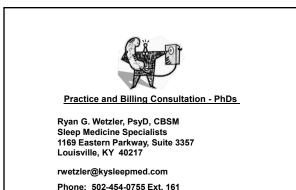


SULPACE OF SULP	AMERICAN B 2510 NORTH FRONTAGE ROAD, DAY					
	BEHAVIO	RAL SLEEP MEDI	INE SPE	CIALISTS		
1978 - INC. W	These individuals have earned certificati	ion in behavioral slee	p medicin	e:		
Home						
About the ABSM	Name	City	State	Zip	Country	Date Certified
Sleep Medicine Certification	Sunoj Abraham, MD, FCCP, D, ABSM, FACP	Hernando	FL	34442		6/18/2006
Behavioral Sleep Medicine Certification	Mark S. Aloia, Ph.D.	Provindence	RI	02906		6/18/2006
Exam	Sonia Ancoli-Israel, Ph.D., D. ABSM	San Diego	CA	92161		6/4/2003
Sleep Technologist	Michael W. Anderson, Ph.D., D.ABSM	Prairie Village	xs	66208		6/4/2003
Registry Exam Designated Credentials	Carolyn Andrews, PhD	Skokie	1.	60077		6/8/2003
Contact Us	J. Todd Arnedt, Ph.D.	Providence	RI	02012		6/4/2003
Disclaimer	Amy Arensky, DO	Kelso	WA	02912		6/8/2003
	Kristin Avis, Ph.D.	Birmingham	AL	98020 35233		6/18/2008
roficiency Exam	Kristin Avis, Fn.D. Erin K. Baehr, Ph.D.	Woodbine	MD	33233		6/18/2005
Exam Overview	Anne D. Bartolucci, PhD	Decatur	GA			6/19/2003 6/10/2007
Log In	Anne D. Bartoiucci, PhD	Decatur	GA	30033		6/10/2007
Register	Linda Berg-Cross, PhD	Potomac	MD	20854- 6235		6/6/2010
	Rakesh Bhattacharjee, MD	Louisville	KY	40241		6/8/2008

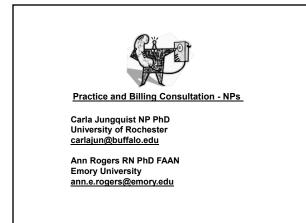








Phone: 502-454-0755 Ext. 161 Fax: 502-459-2156 Website: <u>www.sleepmedicinespecialists.com</u>



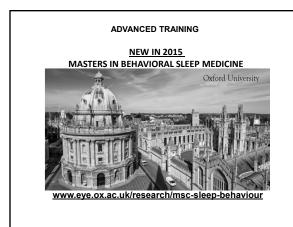


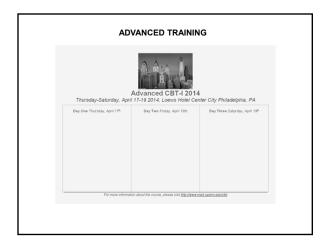
Coaching & Consultation

Marnie G. Shanbhag, Ph.D. 505 Park Avenue North, Suite 201 Winter Park, FL 32789

MShanbhag@earthlink.net

Phone: 407-644-5598 Fax: 407-644-0329 Website: <u>www.centralflcounseling.com</u>

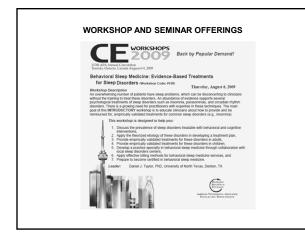






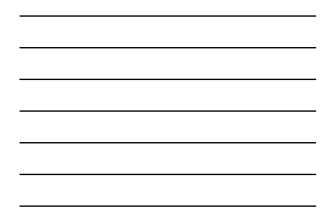


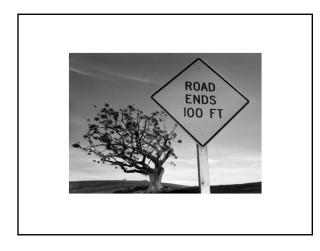








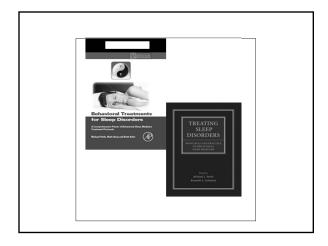




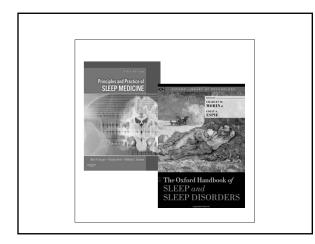




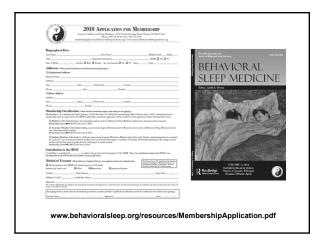








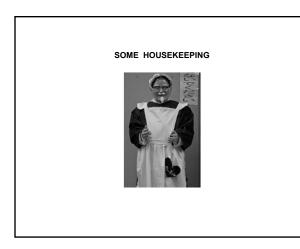


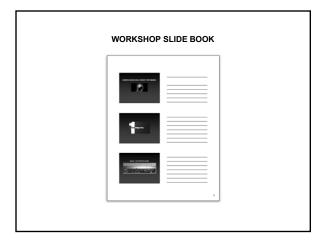
















ADDITIONAL CONTENT

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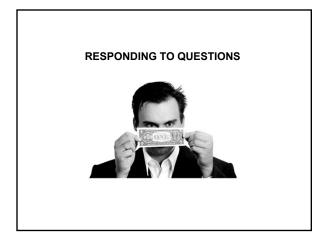
AD	DITIONAL CONTENT
Society and/o	e70
AASM	American Academy of Sleep Medicine
SBSM	Society of Behavioral Sleep Medicine
85M	Behavioral Sleep Medicine
CBT	Cognitive Behavioral Treatment
C87-1	Cognitive Behavioral Treatment of Incomnia
SAT	Sleep Restriction Therapy
SCT	Stimulus Control Therapy Continuous positive airway pressure
54P	Continuous postive anway pressure Progressive Muscle Relaxation
MOTI	Progressive Musice Relatation Mindfulness dated Therapy for Incomnia
MESR	Mindfulness dased Stress Reduction Program
Program T	Cognitive Therapy
12R	Intensive Seep Retraining
P1	Paradoxical Intention
687	evidence-based psychological treatments
Instruments	and Classification Systems
570	sleep timing questionnaire
19	Insomnia Severity Index
SH	Sleep Hygiene Index
DBAS	Dydfunctional beliefs and attitudes about sleep
GSES	Glasgow Sleep Effort Scale
SAME	Sleep Associated Monitoring Index
828A	Benzodiazepine Receptor Aponist
ICSD-a	International Classification of Sleep Disorders, 2 nd edition
DEAS	Dysfunctional Beliefs about Sleep Scale
SRBQ	Sleep-Related Behaviours Questionnaire
6671	Brief Dehavioral Treatment of Insomnia
PSQL	Pittsburgh Sleep Quality Index
555	Stanford Sleepiness Scale
	T-L related Acconyms
5L WASO	Steep Latency Wale after steep onset
WASO NWAK	Wake after sleep onset Number of awakenings
NIRAK TST	Number of availenings Total Sleep Time
T5T 54	Total Sleep Time Sleep Efficiency
778	Time to Bed
TOB	Time out of bed
TIS	Time is Bed
TTOS	Total Time Out of Bed (during the night.)
885	electroencephalography
SOL Ten	Sleep Onset Latericy core body temperature rhythm minimum
	hyshology Accessme
Tx .	
	Medication



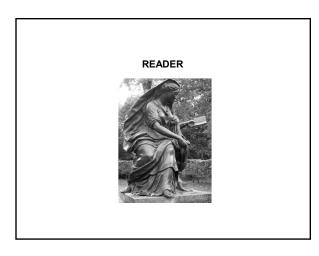
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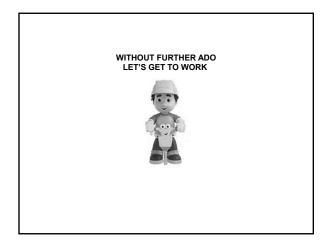
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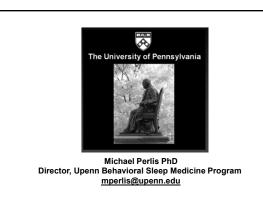


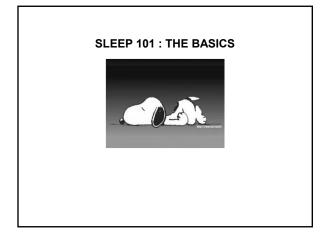










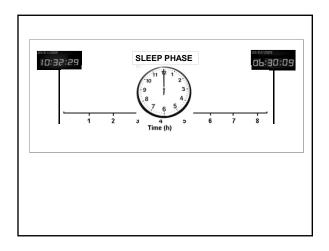




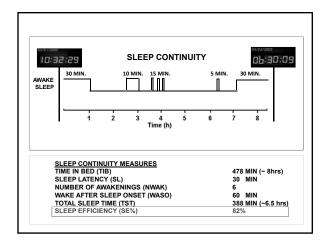
SLEEP WHAT IS IT ?

JUST 8 HOURS OF UNCONSCIOUSNESS OR SOMETHING MORE ?

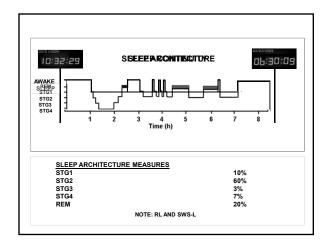




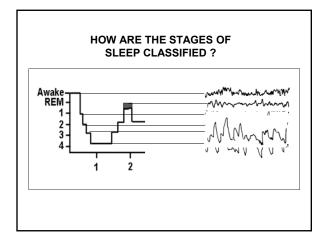




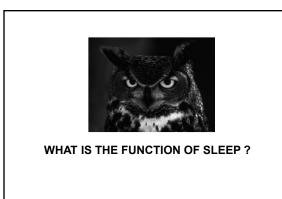


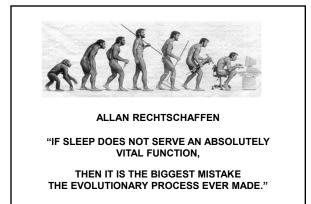


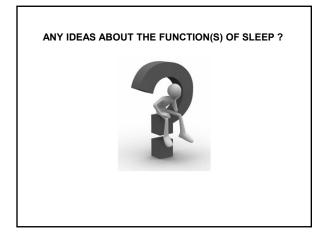


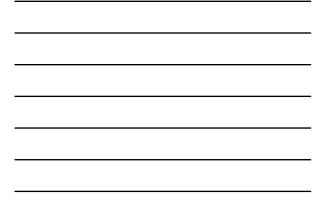






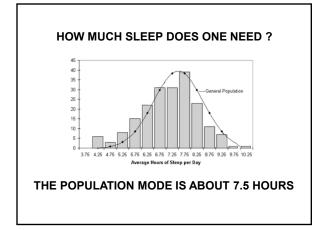


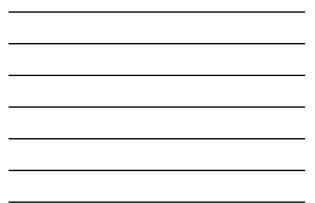




POSSIBLE FUNCTIONS OF SLEEP

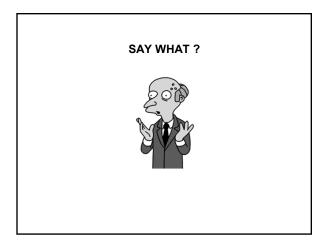
- ENFORCED EMOBILITY
- CONSERVATION OF EFFORT & ENERGY
- GROWTH & TISSUE RESTORATION
- AUGMENTATION OF IMMUNE FUNCTION
- MEMORY CONSOLIDATION
- MOOD REGULATION
- PROMOTION OPTIMAL PERFORMANCE

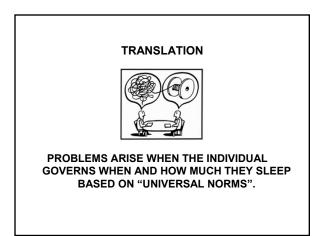




THE PROBLEM

THE PROBLEM WITH USING POPULATION NORMS IS THAT "INDIVIDUALS MAY SEEK MORE SLEEP THAN THEY NEED WHEN IDIOGRAPHIC SLEEP NEEDS ARE DEFINED BY NOMOTHETIC GOALS" (KENNETH LICHSTEIN, 2010)





A NOMOTHETIC

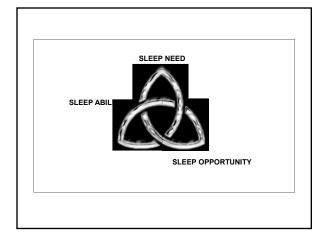


HOW MUCH SHOULD ONE SLEEP ? BY NATURE 5 HOURS, BY CUSTOM 7, BY LAZINESS 9 AND BY WICKEDNESS 11."

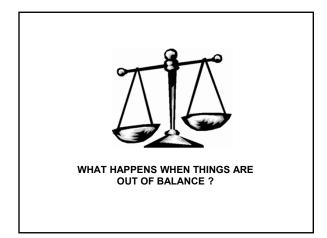
THE PROBLEM

THE PROBLEM IS THAT BOTH TOO LITTLE AND TOO MUCH SLEEP MAY BE DELETERIOUS TO ONE'S HEALTH, FUNCTIONING, AND SENSE OF WELL BEING.

A BALANCE MUST BE STRUCK

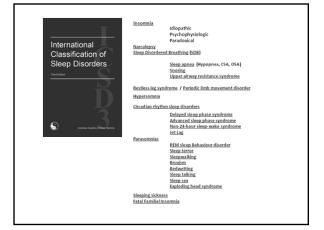




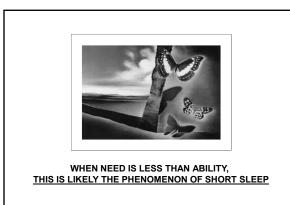


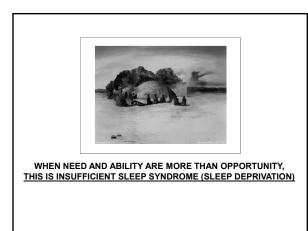


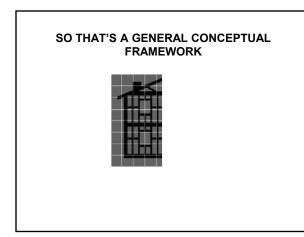
WHEN NEED IS MORE THAN ABILITY, THIS IS INSOMNIA OR A CRD OR OTHER SLEEP DX

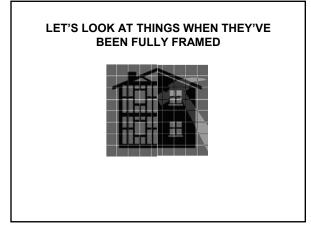


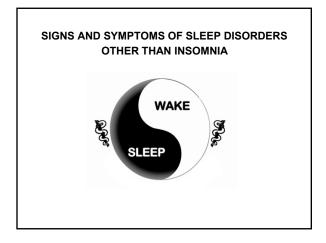




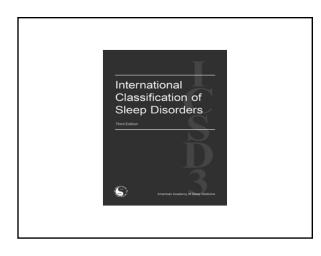


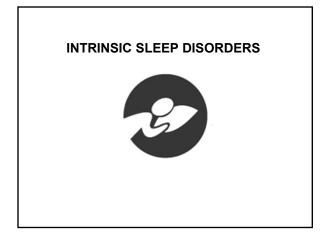


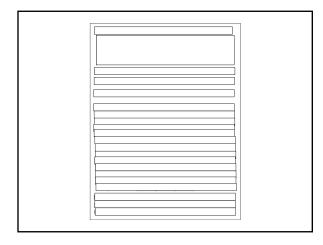
















Sleep Disordered Breathing (SDB) Restless Legs Syndrome / Periodic Limb Movement Disorder Narcolepsy Delayed Sleep Phase Syndrome Advanced Sleep Phase Syndrome Fatal Familial Insomnia



- THEY MAY ENTIRELY ACCOUNT FOR THE COMPLAINT OF INSOMNIA (MAYBE – MAYBE NOT)
- THESE DISORDERS OFTEN CO-OCCUR WITH INSOMNIA
- THEY MAY CONTRAINDICATE THE TX OF INSOMNIA
- THEY MAY COMPLICATE THE TX OF INSOMNIA



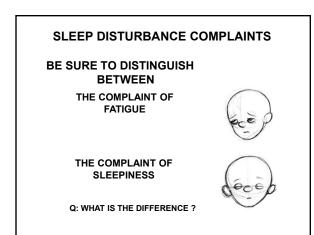


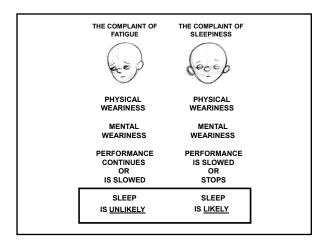
SLEEP DX COMPLAINTS – THE DUO CONDITIONS RELATED TO INSOMNIA

DRUGS AND IATROGENIC INSOMNIA

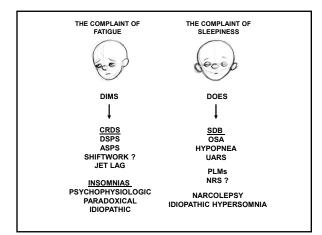
INTRINSIC SLEEP DISORDERS (ABRIDGED)

ASSESSMENT OF SLEEP DISORDERS









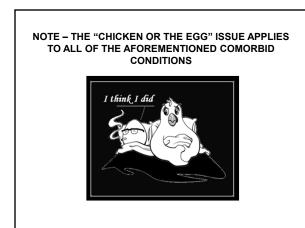


CONDITIONS RELATED TO INSOMNIA & EDS

MEDICATION SIDE EFFECTS

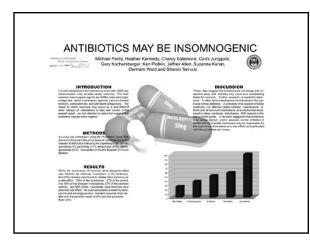
GERD

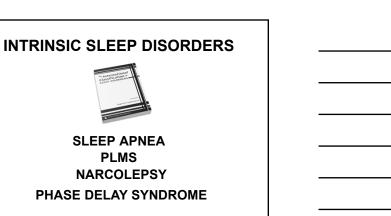
SUBSTANCE ABUSE PSYCHIATRIC ILLNESS HYPERTENSION ENDOCRINE ABNORMALITIES RHEUMATOLOGIC DISEASE RENAL DISEASE LUNG DISEASE HEART DISEASE NEUROLOGICAL DISEASE INTRINSIC SLEEP DXS

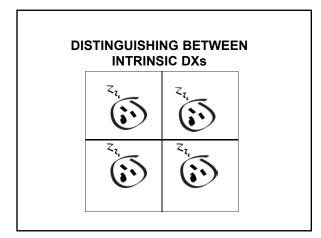


DRUGS THAT CAN CAUSE SLEEP DISTURBANCE

- ALCOHOL & CAFFEINE
- BETA BLOCKERS
- BRONCHODILATORS
- CALCIUM CHANNEL BLOCKERS
- ANTIDEPRESSANTS (1ST VS 2ND GEN)
- ANTIBIOTICS



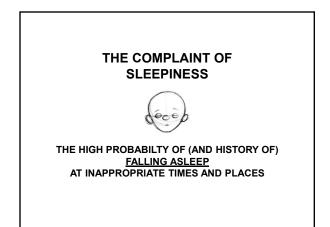






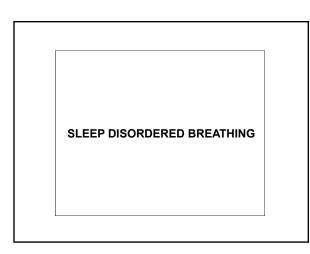


- WITNESSED APNEAS
- MORNING HEADACHE & DRY MOUTH
- NIGHT SWEATS
- MORBID OBESITY
- RETRONAGTHIA
- NARROWED AIRWAY

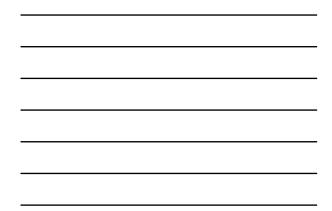


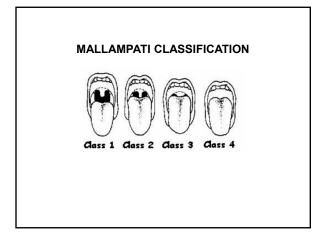


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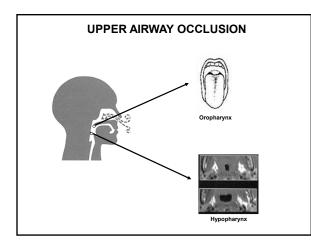


Wills H	Tsai John F. Remmers	Rollin Brant W. V	Vard Flemons, Ian Davies, and	Colin Macarthur	
	nt of Medicine, Division of Re of Calgary, Calgary, AB, Cana		artment of Community Health Science	s; and Department of Anesthesia,	
	Am J Re	spir Crit Care Med	Vol 167. pp 1427-1432, 200	33	
TABLE 2. UNIVARIATE OBSTRU	CTIVE SLEEP APNEA PRE	DICTORS (USING A	N RDI CUTOFF VALUE	Variable	Odds
OF 10 HOUR-')				Snoring history	12
Variable	Odds Ratio	p Value	95% Confidence Interval	Hypertension	10
		1		Witnessed apreas	3.1
Age, years	1.10	0.001	1.03, 1.16 0.93, 1.13	Overbite 2.19	2.1
Epworth sleepiness scale Snoring history	1.03	0.558	0.93, 1.13	Choking episodes	2.0
Shoring restory Cheking episodes	2.02	0.169	0.74, 5.49	Mandibular length cm	1.0
Witnessed appears	3.37	0.016	1.25, 9.06		1.3
Hypertension	10.3	0.029	1.27, 83.9	Sampsoon-Young	
Alcohol use	1.20	0.658	0.53, 2.74	Thyro-rami distance cm	1.5
Smoker	1.28	0.482	0.64, 2.36	Pharyngeal grade I–IV	1.5
Body mass index, kg/m ²	1.13	0.009	1.03, 1.24	TMJ-ramus distance cm	1.3
Neck circumference, cm	1.36	0.000	1.15, 1.61	Neck circumferencecm	1.3
Mandibular advancement, cm	0.69	0.107	0.43, 1.08	Smoker	1.3
Mandibular length, cm	1.83	0.005	1.20, 2.79	Mastoid-medial clavicle cm	1.3
Thyro-eami distance, cm Mastoid-medial clavicle, cm	1.59	0.020	1.07, 2.35		1.3
Matoid-medial clavide, cm TMI-ramus distance, cm	1.32	0.129	0.54, 1.65	Thyro-mental neutral cm	
IMJ-ramus distance, cm Ramus-ramus distance, cm	0.97	0.154	0.88, 2.19	Alcohol use	1
Thyro-mental, neutral, cm	1.23	0.359	0.79, 1.90	Body mass	1.1
Thyto-mental displacement, cm	0.59	0.059	0.35, 1.02	Age years	1
Sterno-mental, neutral, cm	0.86	0.180	0.68, 1.07	Epworth sleepiness scale	1.0
Stemo-mental displacement, cm	0.75	0.041	0.57, 0.99	Ramus-ramus distance cm	0.1
Retrognathia	0.89	0.706	0.48, 1.65	Inter-incisor distance	0.8
Cricomental space, cm	0.15	0.000	0.06, 0.38	Tonsillar grade I–IV	0.0
Tonsillar grade, I-N	0.85	0.415	0.57, 1.26	Sterno-mental displacement cm	0.1
Pharyngeal grade, I-IV Sampsoon-Young class, I-IV	1.52	0.046	1.01, 2.30 1.10, 2.86		
Sampsoon-Young class, 1-IV Palatal elevation	1.77	0.018	1.10, 2.86 0.73, 2.71	Retrognathia 0.89	0.70
Palatal elevation Inter-incisor distance, cm	1.41	0.503	0.73, 2.71 0.44, 1.71	Mandibular advancement	0.6
Inter-incisor distance, cm Overbite	2.19	0.044	1.02, 4.70	Thyro-mental displacement cm	0.5
				Palatal	0.30
Definition of abbreviation: TM[= temp	poral mandibular joint.			Sterno-mental neutral cm 0.86	0.1
				Cricomental space cm	0.1





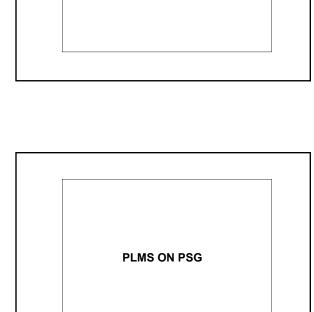






PERIODIC LEG MOVEMENTS SIGNS AND SYMPTOMS

- RESTLESS LEGS SYNDROME (P)
- EXCESSIVE DAYTIME SLEEPINESS
- WITNESSED TWITCHING
- COMPLAINT OF SHALLOW SLEEP
- COMPLAINT OF INSOMNIA

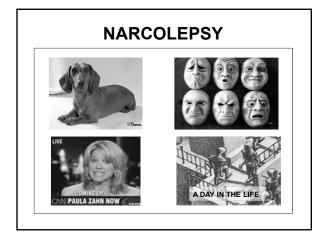


PLMS - WHAT THEY SAY PLMS - WHAT IT IS

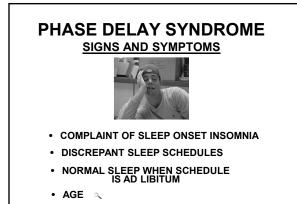
NARCOLEPSY SIGNS AND SYMPTOMS

- EXCESSIVE DAYTIME SLEEPINESS
- HYPNOPOMPIC/HYPNOGOGIC HALLUCINATIONS
- SLEEP ATTACKS (REM SLEEP)
- CATAPLEXY
- SLEEP PARALYSIS
- COMPLAINT OF INSOMNIA

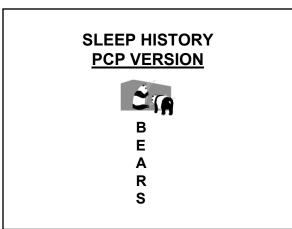


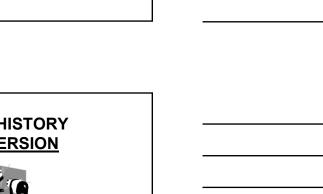


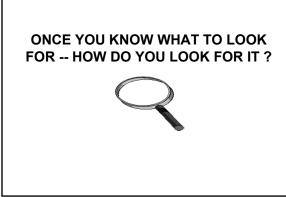


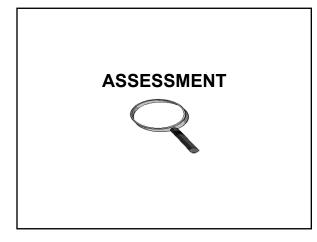










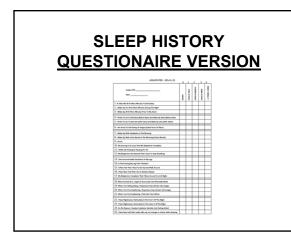




SLEEP HISTORY



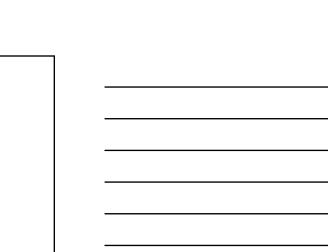
- ${\bm B}$ "Do you have difficulty falling asleep?" (BEDTIME)
- **E** "Do you ever fall asleep during the day?" (EDS)
- ${\boldsymbol{\mathsf{A}}}$ "Do you awaken frequently or for long periods (AWAKE)"
- ${\bm R}$ "What time do you go to bed? Get up?" (REGULARITY)
- **S** "Have you noticed/anyone said you snore?" (SNORE)



ANNOTATED - SDS-CL-25

2

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ASSESSMENT

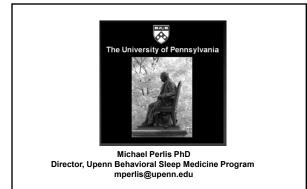
Beyond Signs and Symptoms
SLEEP DIARIES

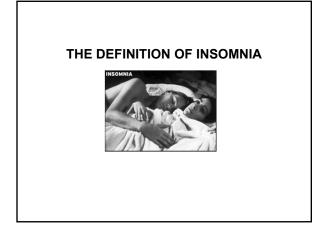
ACTIGRAPHY

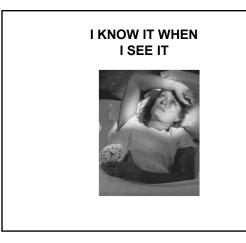
IN-HOME APNEA MONITORS

IN-LAB POLYSOMNOGRAPHY SDB (OSA / CSA / HYPOPNEA / UARS) PLMS NARCOLEPSY SLEEPINESS (VIA MSLT) SLEEP EEG ABNORMALITIES (alpha sleep, nocturnal seizures, absent phasic events) CARDIAC ABNORMALITIES





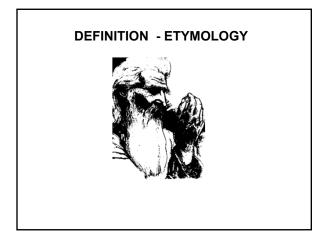


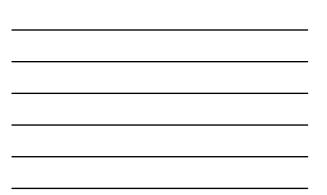


I KNOW IT WHEN I HEAR ABOUT IT ?

"Until you've experienced it yourself, it may seem contradictory that a person can be utterly exhausted and yet unable to sleep, but that's precisely [it]..."

www.health.com/health/condition-article/0,,20188079,00.html

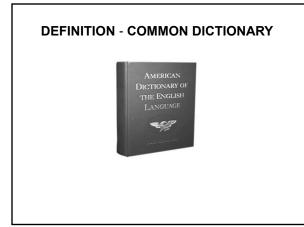




Word Origin & History

insomnia 1623, Anglicized as insomnie, from L. insomnia "want of sleep," from in {"not" + somnus "sleep" [see <u>somnolence</u>). The modern form is from 1758. [Insomniac (n.)] is from 1908. Online Bymology Okicinery, @ 2001 Douglas Harper <u>Cite This Source</u>

http://dictionary.reference.com/browse/insomnia



Dictionary

insomnia [(in-som-nee-uh)] A persistent and prolonged inability to sleep.

The American Hertage® New Dictionary of Cutural Literacy, Third Edition Copyright @ 2005 by Houghton Mifflin Company. Published by Houghton Mifflin Company. All rights reserved. <u>Cite This Source</u>

http://dictionary.reference.com/browse/insomnia

DEFINITION - MEDICAL DICTIONARY



Medical Dictionary

Aretucat Main Entry: Im-som-nia Pronunciation: in-'sam-nE-& Function: nown : prolonged and usually abnormal inability to obtain adequate sleepcalled also <u>apryomia</u> Merrian-Webster Media Dictionary, © 2002 Merrian-Webster, Inc.

http://dictionary.reference.com/browse/insomnia

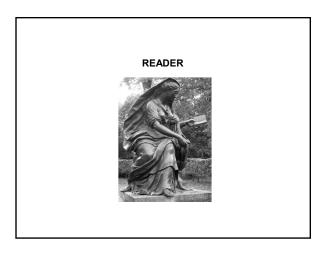
A DICTIONARY PSYCHOLOGICAL MEDICINE CALL AND AND THE ADDRESS AND ADDRESS AN LONDON J. & A. CHURCHILL IN NEW SCHLINGTON STREET 1989 A Dictionary of Psychological Medicine Ed. D. Hack Tuke MD LLD, JA Churchill, London 1892. Vol. 1 p. 61. AGREFNIA (ăppos, wild or restless; impos, sleep). A term for wakefulness or sleeplessness; one of the premonitory symptoms of various forms of insanity. (Fr. agrypnic; Ger. Schlaftosigkeit).

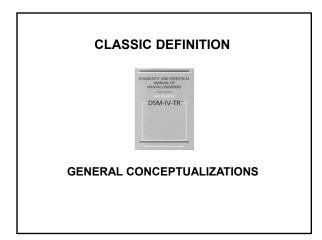
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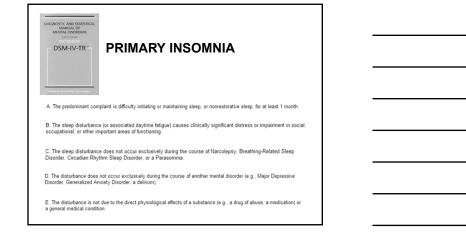
AGRYPHIA PERTERA (άγριος; *ύπος*; pertcesus, disturbed). Sleeplessness from bodily disquiet, with attention alive to surrounding objects.





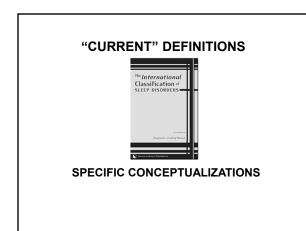


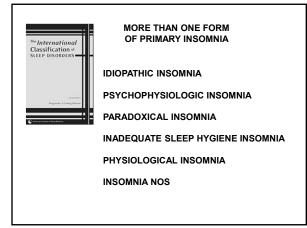


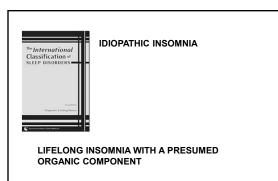




- b. The sleep disturbance (or associated daytime fatigue) causes clinically significant distress or impairment in social, occupational, or other important areas of functioning.
- c. The sleep disturbance does not occur exclusively during the course of narcolepsy, breathing-related sleep disorder, circadian rhythm sleep disorder, or a parasomnia.
- d. The disturbance does not occur exclusively during the course of another mental disorder (e.g., major depressive disorder, generalized anxiety disorder, delirium).
- e. The disturbance is not caused by the direct physiologic effects of a substance (i.e., drug abuse, medication) or a general medical condition.



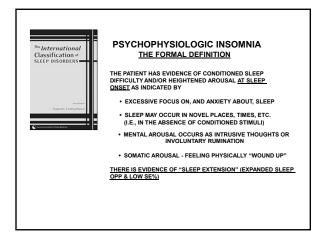






PSYCHOPHYSIOLOGIC INSOMNIA

A FORM OF INSOMNIA THAT IS CONCEPTUALIZED AS BEING PERPETUATED BY BOTH PSYCHOLOGICAL (BEHAVIORAL AND COGNITIVE) AND PHYSIOLOGICAL FACTORS





PARADOXICAL INSOMNIA

A FORM OF INSOMNIA FOR WHICH THERE IS A PROFOUND DISCREPANCY BETWEEN THE PATIENT'S EXPERIENCE OF SLEEP CONTINUITY DISTURBANCE AND THE MEASURE OF INSOMNIA SEVERITY BY POLYSOMNOGRAPHY



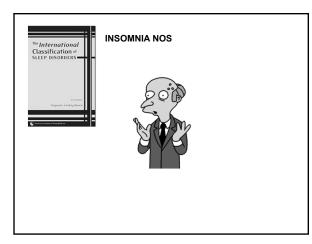
INADEQUATE SLEEP HYGIENE INSOMNIA

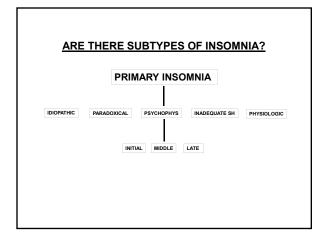
A FORM OF INSOMNIA THAT IS CONCEPTUALIZED AS BEING PERPETUATED, IN LARGE MEASURE, BY LIFESTYLE ISSUES



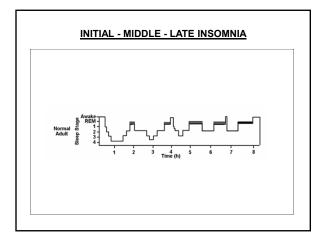
PHYSIOLOGICAL INSOMNIA

A FORM OF INSOMNIA THAT IS CONCEPTUALIZED AS BEING PERPETUATED, IN LARGE MEASURE, BY ORGANIC FACTORS

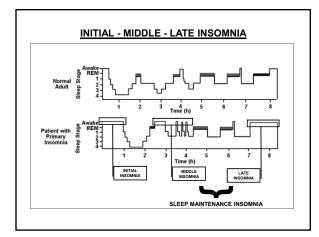




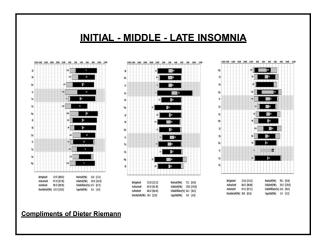




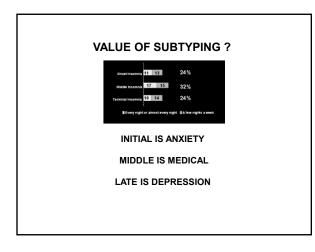


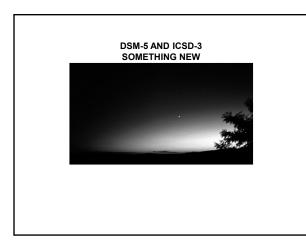


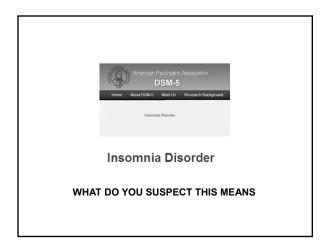


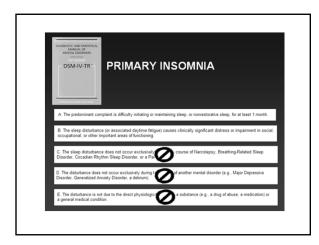














THUS THE CONCEPT OF SECONDARY INSOMNIA HAS BEEN ELIMINATED

INSOMNIA WHEN CHRONIC IS NOT CLASSIFIED AS A SYMPTOM OF OTHER CO-OCCURING ILLNESSES BUT INSTEAD IT IS CLASSIFIED AS A DISORDER



THIS PARADIGMATIC SHIFT WAS BROUGHT TO YOU BY

> McCrae & Lichstein, 2001 Stepanski & Rybarczyk , 2005 Lichstein, 2006



THEY ARGUED

IT IS ALMOST IMPOSSIBLE TO MAKE A DIFFERENTIAL DIAGNOSIS OF [SECONDARY INSOMNIA [SI])

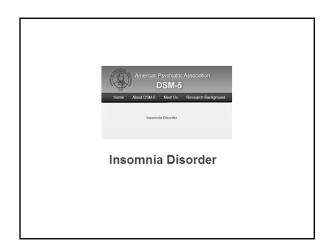


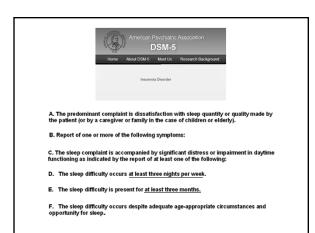
THE ARGUMENT WAS BASED ON

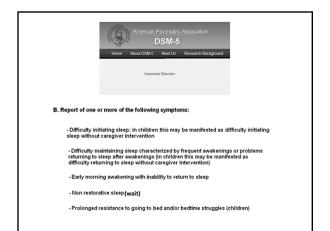
- CONCEPTUAL GROUNDS
- THEORETICAL GROUNDS
- BASIS OF TREATMENT OUTCOME DATA

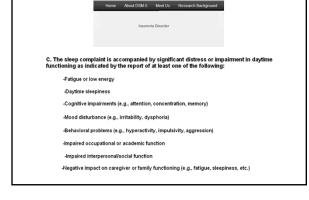


THE CONCEPTUAL ARGUMENT
ABSOLUTE SECONDARY INSOMNIA
PARTIAL SECONDARY INSOMNIA
SPECIOUS SECONDARY INSOMNIA

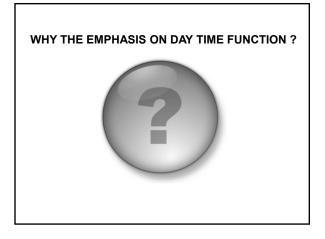


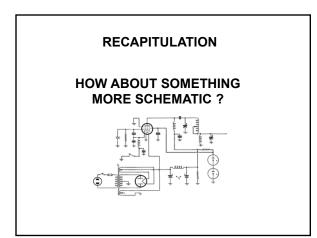


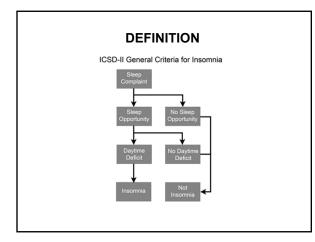




IN Psychiatric.



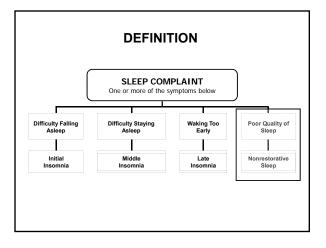






DEFINITION

WHAT IS MEANT BY A SLEEP COMPLAINT ?





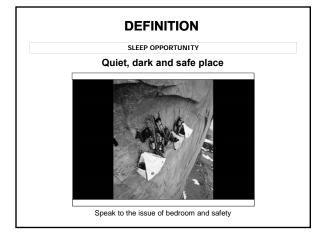
DEFINITION

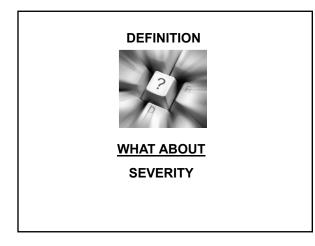
WHAT IS MEANT BY SLEEP OPPORTUNITY ?

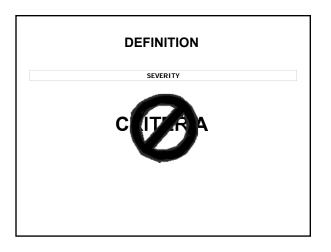
DEFINITION

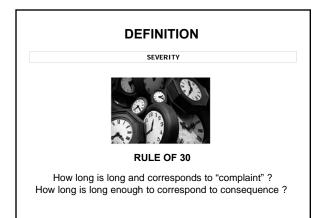
SLEEP OPPORTUNITY

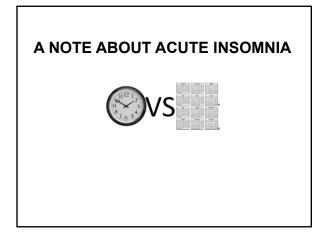
Nocturnal sleep difficulties occur despite the allocation of adequate time and circumstances (e.g., a quiet and dark bedroom) for sleep.











April, 1923 CALIFORNIA STATE JOURNAL OF MEDICINE 175 THE GENESIS AND TREATMENT OF INSOMNIA •

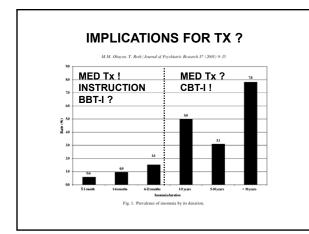
By HENRY DOUGLAS EATON, M. D., Los Angeles



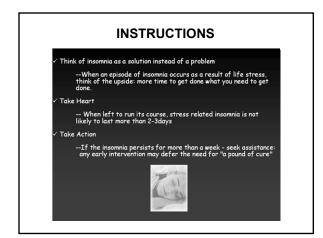


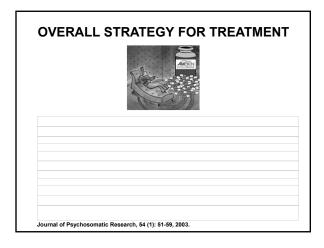
The proposed diagnostic for acute insomnia. Acute Insomnia		
DL – quality of life.		



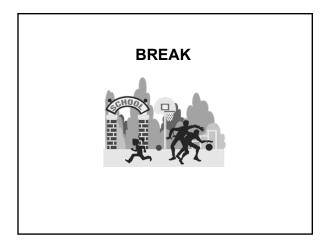


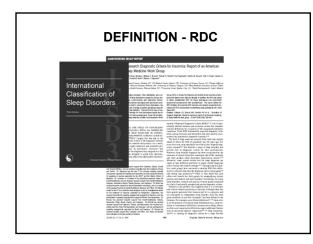


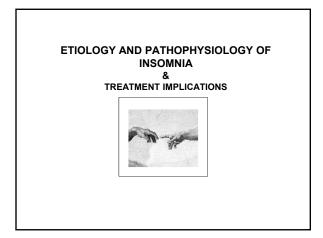












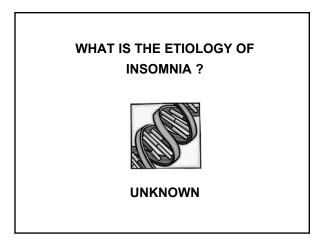
SO WHO NEEDS A MODEL ?

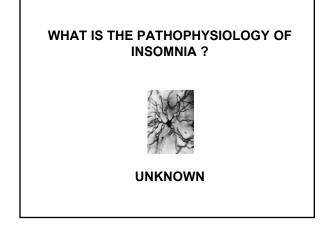
"The only problem with insomniacs is <u>they don't get enough sleep</u>"

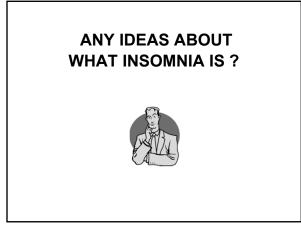


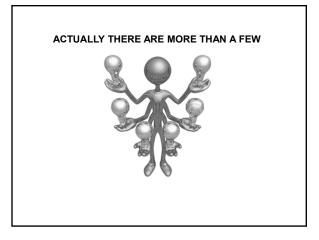
REVIEW OF INSOMNIA MODELS RE: ETIOLOGY AND PATHOLOGY

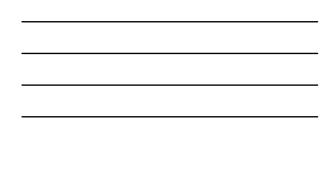






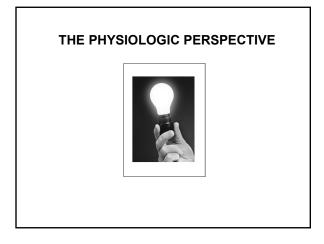














THE PHYSIOLOGIC MODEL	

WHAT IS HYPERAROUSAL ?

DO PATIENTS WITH INSOMNIA EXHIBIT THIS ?



A LEVEL OF PHYSIOLOGIC AROUSAL THAT INTERFERES WITH THE INITIATION AND MAINTENANCE OF SLEEP

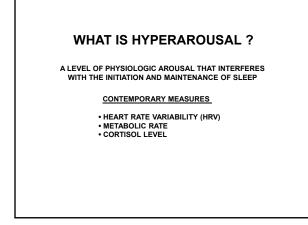
CLASSICAL MEASURES

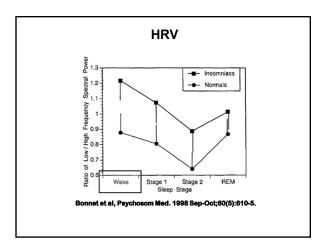
- HEART RATE (HR)
 RESPIRATION RATE (RR)
 MUSCLE TONUS (EMG)
 TEMPERATURE (CBT)
 STARTLE RESPONSE (GSR)

DO INSOMNIA PATIENTS EXHIBIT **INCREASED PHYSIOLOGIC AROUSAL ?**

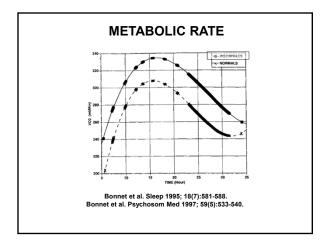


	Monrce 1967	Haynoo 1974	Haynes 1981	Freedman 1982	Adam 1985	Stepanok 1994
Subject issues	1967	19/4	1981	1982	1985	1994
Mean Age (PS and GS)	25/26	18/18	19/19	31/27	21/21	34/34
Sample Size (PS and GS)	16/16	12/10	10/11	12/12	19/19	24/25
Retruitment Source	Univ.	Unix.	Unix	Comm.		Comm.
Retruitment (indicated Insomna Research)	Yes	No	22	Yes	No	Yes
Medical Screening	22	22	77	Yes	72	Yes
Psych Screen	22	22	22	Yes	Yes	Yes
Sleep Ex Screen	22	12	22	Yes	22	Yes
Incomplaint (or the PS)	No	52	Yes	Yes	Yes	Yes
PS9 study	Yes	No	Yes	Yes	Yes	Yes
PSD Confirmed Insomnia	Yes	No	Yes	Yes	Yes	Yes
Measures -						
Heart rate - During the Day					ns	ns ?
Heart Rate - Prior to Sleep Onset	1		Ť	+	ns	1
Heart rate - During Sleep	Ŧ			ns	ns	Ŧ
Respiration Rate - During the Day						
Respiration Rate - Prior to Sleep Onset	+		-			
Respiration Rate - During Sleep	÷.		-	ns		
Respiration Rate - Doning Steep				ns		<u> </u>
Temperature ¹ - During the Day					÷	
Temperature - Prior to Sleep Criset	1			ns	Ť	
Temperature - During Sleep	Ť			ns	Ť	
Muscle Tension - During the Day		+				
Muscle Tension - Price to Sleep Onset			-	1		<u> </u>
Muscle Tension - During Sleep				ns		
Skin Resistance - During the Day	1					
Skin Resistance - Prior to Sleep Onset	-			个		<u> </u>
Skin Resistance - During Sleep				ns		
Peripheral Vasoconstrictivity- During the Day	+					ns
Peripheral Vasoconstrictivity- Frior to Sleep Onset				ns		
Peripheral Vasoconstrictivity- During Sleep	-		-	ns		ns
e enpresar vasoconsmichtly- During Steep				ns		ns

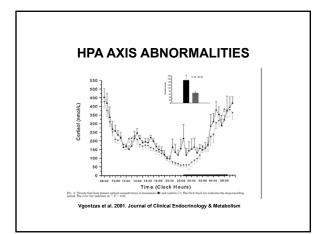




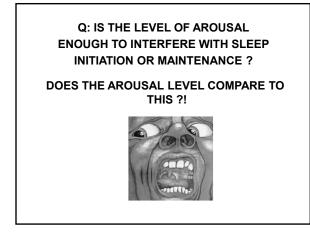




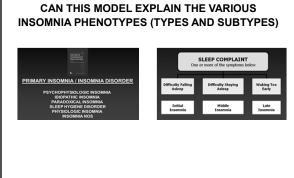


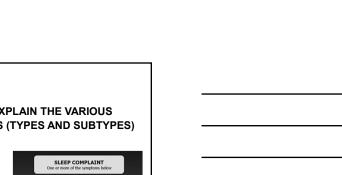


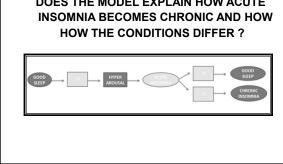




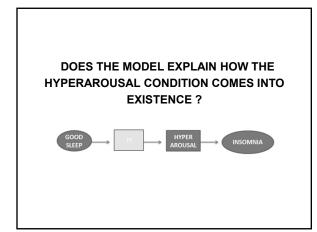
IT'S DOUBTFUL

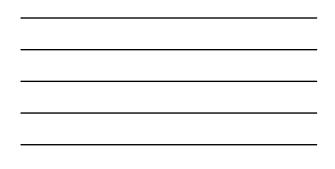






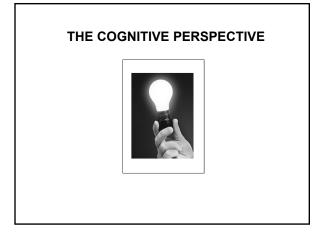


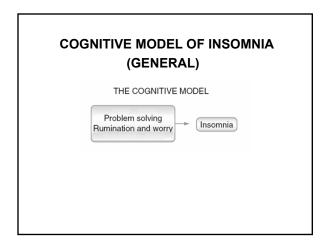












INSOMNIA OCCURS AS A RESULT OF WORRY

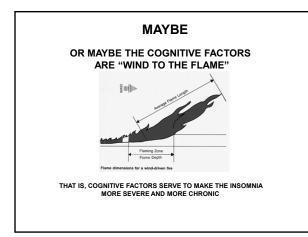
WORRY – CLASSIC

WORRY - CONTEMPORARY

DOES CHRONIC INSOMNIA OCCUR BECAUSE OF

WORRY RUMINATION INTRUSIVE THOUGHTS

SELECTIVE ATTENTION SLEEP-RELATED INTENTION AND EFFORT SAFETY BEHAVIORS



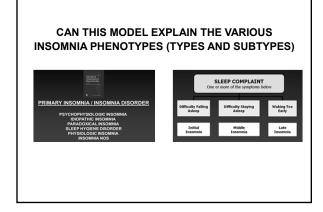
CONSIDER THIS:

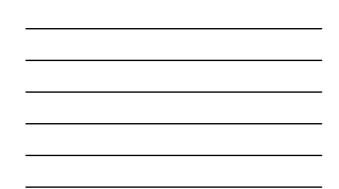
IN THE CASE OF CHRONIC INSOMNIA

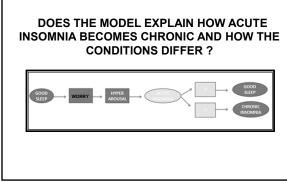
IS IT THE CASE THAT WORRY KEEPS ONE AWAKE

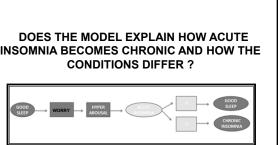
OR

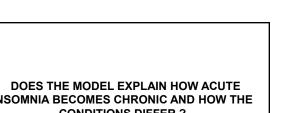
THAT ONE WORRIES BECAUSE ONE IS AWAKE ?

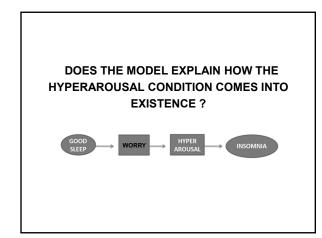




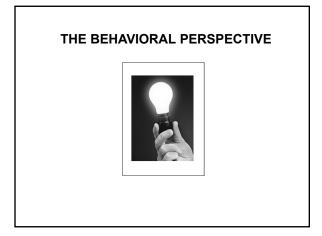










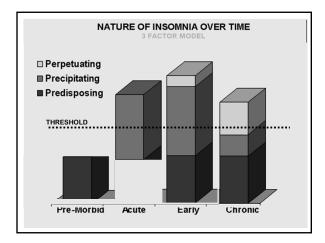


THE SPIELMAN MODEL (AKA 3 FACTOR MODEL)

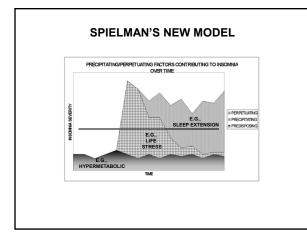
Spielman A. et al. A behavioral perspective on insomnia treatr Psychiatric Clinics of North Am 1987; 10(4):541-553. nent.



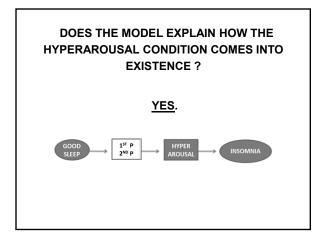
-- W.C. Fields

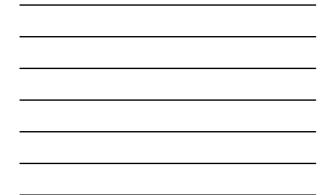


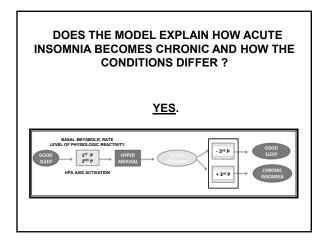










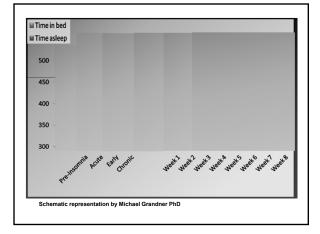




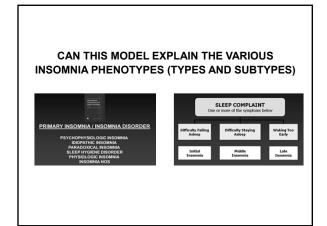
3rd P – SLEEP EXTENSION

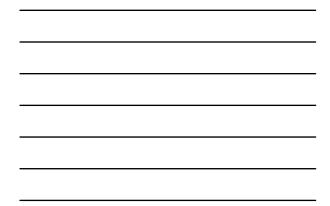
HOW TIME IN BED VARIES WITH INSOMNIA

HOW SLEEP OPPORTUNITY IS EXPANDED TO RECOVER LOST SLEEP

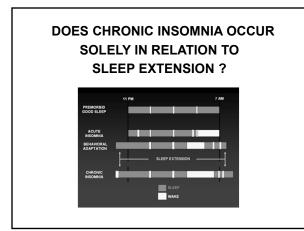








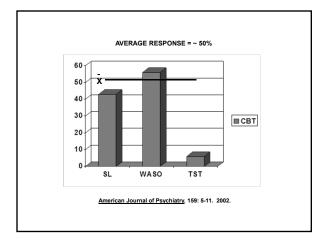
PROBABLY NOT





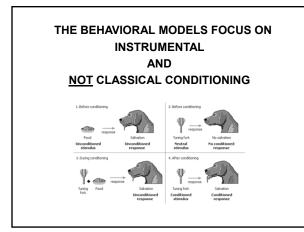
ASSUMING TX (CBT-I) ENTIRELY ELIMINATES THE BEHAVIORS THAT PERPETUATE INSOMNIA

WHY ARE PATIENTS NOT CURED ?





IS THERE SOMETHING MISSING FROM THE BEHAVIORAL MODEL(S) ?



CLASSICAL CONDITIONING

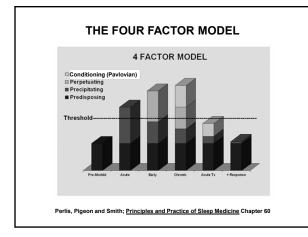
NORMAL SITUATION BEDROOM/BEDTIME → SLEEPINESS & SLEEP

ACUTE INSOMNIA SITUATION BEDROOM/BEDTIME + LIFE STRESS INDUCED SOMATIC AROUSAL - SCD BEDROOM/BEDTIME + LIFE STRESS INDUCED CORTICAL AROUSAL - SCD

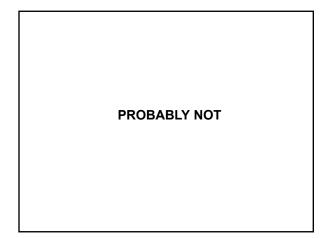
CHRONIC INSOMNIA SITUATION BEDROOM/BEDTIME ← LIFE OTRESO INDUCED SOMATIC AROUSAL → SCD BEDROOM/BEDTIME ← LIFE STRESS INDUCED CORTICAL AROUSAL → SCD

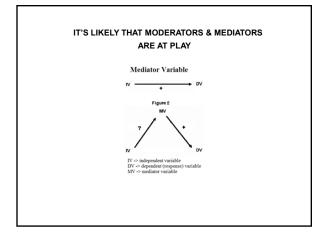
SO IF ONE TAKES INTO ACCOUNT CONDITIONING

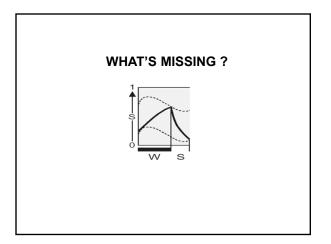
THE THREE FACTOR MODEL COULD BE REPRESENTED AS A FOUR FACTOR MODEL



DOES CHRONIC INSOMNIA OCCUR SOLELY IN RELATION TO PHYSIOLOGIC, COGNITIVE, AND BEAHVIORAL FACTORS ?

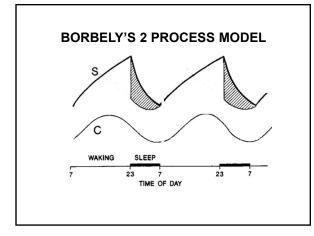




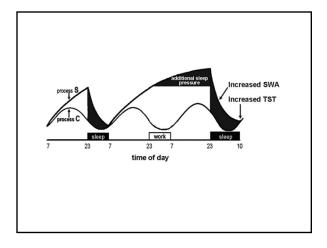


22 Sleep Homeostasis and Models of Sleep Regulation
Alexander A Sobely Peter Achemon
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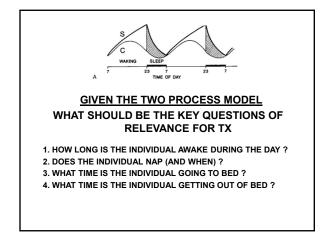


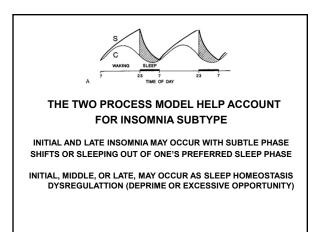


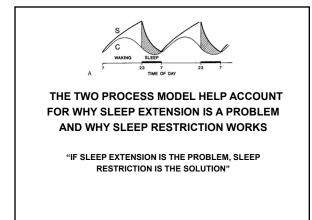




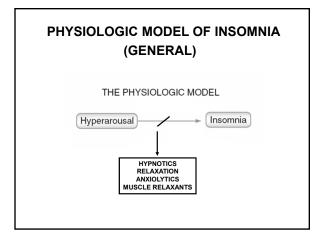


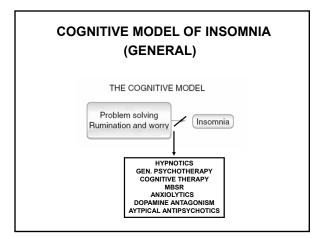




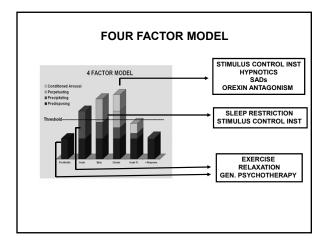


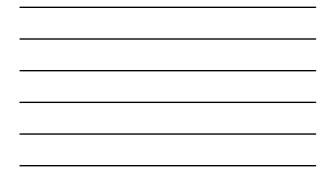












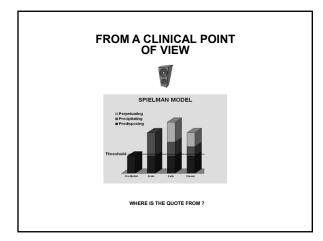
SO THESE ARE THE BASIC MODELS

FYI

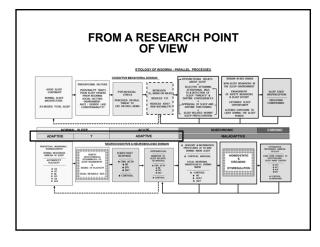
THERE ARE OTHER MODELS WORTH STUDYING DOWN THE ROAD

THE LUNDH MODEL THE NEUROCOGNITIVE MODEL THE HARVEY MODEL THE PSYCHOBIOLOGICAL INHIBITION MODEL THE NEUROBIOLOGICAL MODEL

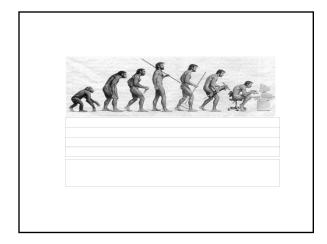
> THE DROSOPHILA MODEL THE RODENT MODEL

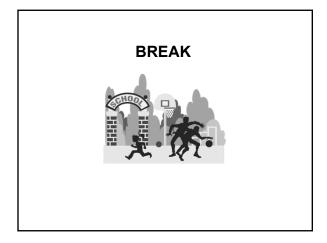




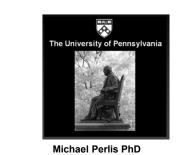




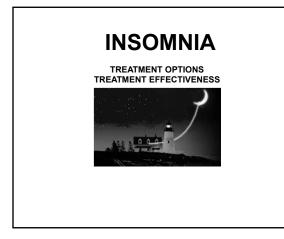


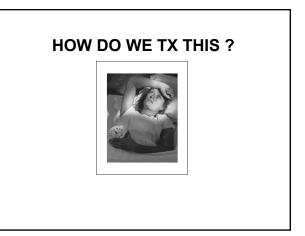






Michael Perlis PhD Director, Upenn Behavioral Sleep Medicine Program mperlis@upenn.edu



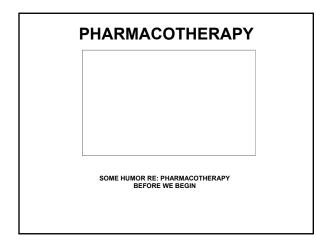


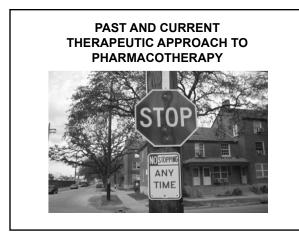
A HX PERSPECTIVE PHARMACOTHERAPY

46 THE BRITISH MEDICAL JOURNAL. [July 14, 1877.

QUEEN'S HOSPITAL, BIRMINGHAM. CASES UNDER THE CARE OF DR. SAWYER.

Intermia.— is usually successfully treated by full doses of bromides conjoined with tincture of ergot and cod-liver oil. If the insonnia be serious, it must be stopped at once by hypnotics, preferably by optium.





TREATMENT OPTIONS

(e.g., temazepam)

(e.g., zolpidem) (e.g., zaleplon) (e.g., eszopiclone)

CLASSIC THERAPIES

- Benzodiazepines
- Imidazopyridines
 Pyrazolopyrimidine
 Pyrrolopyrazine

NEWER THERAPIES

Melatonin Agonists (e.g., ramelteon)
 Doxepin (e.g., "Silenoir)

OFF LABEL

Antidepressants
 Antipsychotics

IN DEVELOPMENT

Orexin antagonists

• BZRAs + CBT-I • Stimulants + CBT-I



(e.g., amitriptyline, trazodone) (e.g., quetiapine)

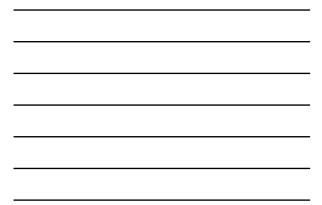
(e.g., suvorexant)

	Trade	Class	FDA indication	(max	fa p	Binding	profile						Metabo	dism
	name			(h)	(h)	Benzo binding					Anti- A dopa m			
Flurazepam	Dalmane	Benzodiazepine	Insomnia	0.5-1.5	40-250	+++							C)#2C1	9, CYP3A4
Quazepam	Doral	Benzodiazepine	Insomnia	2	20-120									, CYP2C19
Estazolam	Prosom	Benzodiazepine	Insomnia	15-2	10-24								CIP3M	
Terna ze parn	Restoril	Benzodiazepine	Insomnia	1-3	8-20	+++								mide conjugation
Triazolam	Halcion	Benzodiazepine	Insomnia	1-3	2-5.5	+++								l, glucuronide
													conjuga	
Clon azepam		Benzodiazepine	Seizures, anxiety			+++								CYP3A4, acetylati
Lor azepam	Ativan	Benzodiazepine	Anxiety	1-3	12-15	+++							Glucure	mide conjugation
Alprazolam	Xan													5, CYP2C19
Diazepam	Valia													CYP2C19, CYP3A4
Chlordiazepoxide														nide conjugation
Chlordsazepoxide	Libri	14/		201		DEL	100	1C	11.4					CYP2C19, CYP3A4
		VVI	HILE (וטי	VI P F	▝▐▔	ᅚ	13	I V	Е,				nide conjugation
Zolpidem (MR)	Amt								_				-	CYP1A2, CYP2CS in oxidate, CYP3A
Zalepion	Son:						л т			Τ.				
Eszopicione		NHAT IS	111133	UNG		KON	/ 1	HI	2	IA	BL	E	1	CYP2E1
Ramelteon	Roze	WHAT IS	11133	ING				ны	5	IA	BL	E	1	CYP2C, CYP3A4
		WHAT IS	11133	ING		(UN		HI	5	IA	BL	E	?	CYP2C, CYP3A4
Ramelteon Amitriptyline	Roze Elav			ING			/ 1	HIG	5	IA	BL	E	-	CYP2C, CYP3A4 CYP2C19, CYP2D
Ramelteon	Roze Elav		WII55					HI	5		BL	E		CYP2C, CYP3A4 CYP2C19, CYP2D
Ramelteon Amitriptyline	Roze Elav Sine-gume			1-2	7-15				-		BL	E	C172CS	, CYF2C, CYF3A4 , CYF2C19, CYF2L , CYF2C19, CYF2L , CYF2C19, CYF2L
Ramelteon Amitriptyline Doxepin Trazodone	Roze Elav Sine-gumv Desyrel	Chlorophenylpiper azine						+	-		BL	E	C172CS	. CYP2C, CYP3A4 . CYP2C19, CYP2E . CYP2C19, CYP2E . CYP2C19, CYP2E . CYP1A2 . CYP2D6, CYP1A
Ramelteon Amitriptyline Doxepin Trazodone Mirtazapine	Roze Elav Sine-e Desyrel Remeron	Chlorophenylpiper azine Tetracyclic	MDD MDD	1-2	7-15	CON		+	++		.в∟	E	C172C1 C173A	. CYP2C, CYP3A4 . CYP2C19, CYP2E . CYP2C19, CYP2E . CYP1A2 . CYP1A2 . CYP2D6, CYP1A . CYP1A2, CYP3A
Ramelteon Amitriptyline Doxepin Trazodone	Roze Elav Sine-e Desyrel Remeron	Chlorophenylpiper azine	MDD	1-2 0.25-2	7-15 20-40			+	++		.вс	E	C172C1 C173A	CYP2C, CYP3A4 CYP2C19, CYP2D
Ramelteon Amitriptyline Doxepin Trazodone Mirtazapine Quetiapine	Roze Elav Sine energy Remeron Seroquel	Chlorophenylpiper adne Tetracyclic Dibenzothiazepine	MDD MDD Schizophrenia	1-2 0.25-2	7-15 20-40			+	++		.вс		C172C1 C173A	. CYP2C, CYP3A4 , CYP2C19, CYP2U , CYP2C19, CYP2U , CYP2D6, CYP2A , CYP2D6, CYP1A2 , CYP1A2, CYP3A4 , CYP1A2, CYP3A4
Ramelteon Amitriptyline Doxepin Trazodone Mirtazapine	Roze Elav Sine energy Remeron Seroquel	Chlorophenylpiper azine Tetracyclic	MDD MDD Schizophrenia mania	1-2 0.25-2 1	7-15 20-40 7		***	+	++		вL •		C1F2C3 C1F3A0 C1F2D0 C1F2D0	. CYP2C, CYP3A4 , CYP2C19, CYP2U , CYP2C19, CYP2U , CYP2D6, CYP2A , CYP2D6, CYP1A2 , CYP1A2, CYP3A4 , CYP1A2, CYP3A4
Ramelteon Amitriptyline Dovepin Trazodone Mirtazapine Quetiapine Olanzapine	Roze Elav Sinte-euron Desyrel Remeron Seroquel 2yprexa	Chlorophenylpiper adine Tetracyclic Diberizothiazepine Thiobe rizodiazepine	MDD MDD Schizophrenia mania Schizophrenia	1-2 0.25-2 1	7-15 20-40 7		***	+	++		ВL - 		C1172C1 C1173A4 C1172D1 C1172D1 C1171A2	. CYP2C, CYP3A4 , CYP2C19, CYP2U , CYP2C19, CYP2U , CYP2D6, CYP2A , CYP2D6, CYP1A2 , CYP1A2, CYP3A4 , CYP1A2, CYP3A4
Ramelteon Amitriptyline Doxepin Trazodone Mirtazapine Quetiapine	Roze Elav Sinte-euron Desyrel Remeron Seroquel 2yprexa	Chlorophenylpiper adne Tetracyclic Dibenzothiazepine	MDD MDD Schizophrenia mania Schizophrenia mania	1-2 0.25-2 1 5	7-15 20-40 7 30	KUN	***	+	++				C1172C1 C1173A4 C1172D1 C1172D1 C1171A2	, CYP2C, CYP3A4 , CYP2C19, CYP2D , CYP2C19, CYP2D , CYP2D9, CYP2D , CYP2D6, CYP1A2 , CYP2D6, CYP1A , CYP3A4
Ramelteon Amitriptyline Dovepin Trazodone Mirtazapine Quetiapine Olanzapine	Roze Elav Sine-euron Desyrel Remeron Seroquel Zyprexa Risperdal	Chlorophenytpiper azine Tetracyclic Dibenzothiazepine Thiobenzodiazepine Benzisonazole	MDD MDD Schizophrenia mania Schizophrenia mania Schizophrenia	1-2 0.25-2 1 5	7-15 20-40 7 30	KUN	***	+	++		• ••	++	C1F2D C1F2D C1F2D C1F2D C1F2D C1F2D	, CYP2C, CYP3A4 , CYP2C19, CYP2D , CYP2C19, CYP2D , CYP2D9, CYP2D , CYP2D6, CYP1A2 , CYP2D6, CYP1A , CYP3A4
Ramèlieon Amitriptyline Doxepin Trazodone Mirtazapine Quetiapine Olanzapine Risperidone	Roze Elav Sine-euron Desyrel Remeron Seroquel Zyprexa Risperdal	Chlorophenytpiper azine Tetracyclic Dibenzothiazepine Thiobenzodiazepine Benzisonazole	MDD MDD Schizophrenia mania Schizophrenia mania Schizophrenia mania	1-2 0.25-2 1 5 1	7-15 20-40 7 30 3-20	KUN	 	+	++		• ••	++	C1F2D C1F2D C1F2D C1F2D C1F2D C1F2D	CYP2C, CYP3A4 , CYP2C19, CYP2C , CYP2C19, CYP2C , CYP2C19, CYP2A , CYP2D6, CYP1A5 , CYP1A2, CYP3A6 , CYP3A4 , CYP3A4 , CYP3A4
Ramèlieon Amitriptyline Doxepin Trazodone Mirtazapine Quetiapine Olanzapine Risperidone	Roze Bav Sine-euro Desyrel Remeron Seroquel Zyprexa Risperdal Benadryl	Chlorophenytpiper azine Tetracyclic Dibenzothiazepine Thiobenzodiazepine Benzisonazole	MDD MDD Schizophrenia mania Schizophrenia mania Schizophrenia mania	1-2 0.25-2 1 5 1	7-15 20-40 7 30 3-20 5-11		 	+	++		• •• ••		C1F2C3 C1F2D3 C1F2D3 C1F2D3 C1F2D3 C1F2D3 C1F2D3 C1F2D3 C1F2D3	CYP2C, CYP3A4 , CYP2C19, CYP2C , CYP2C19, CYP2C , CYP2C19, CYP2A , CYP2D6, CYP1A5 , CYP1A2, CYP3A6 , CYP3A4 , CYP3A4 , CYP3A4



Dit	igs indi	cated for	r Insomn	lia
@)				
Generic	Brand	T _{1/2} (Hours)	Dose (mg)	Drug Class
Flurazepam	Dalmane	48-120	15-30	BZD
Temazepam	Restoril	8-20	15-30	BZD
Triazolam	Halcion	2-6	0.125-0.25	BZD
Estazolam	Prosom	8-24	1-2	BZD
Quazepam	Doral	48-120	7.5-15	BZD
Zolpidem	Ambien	1.5-2.4	5-10	non-BZD
Zalepion	Sonata	1	5-20	non-BZD
Eszopiclone	Lunesta	5-7	1-3	non-BZD
Zolpidem Ext. Rel.	Ambien CR	1.5-2.4*	6.25-12.5	non-BZD
Ramelteon	Rozerem	1.5-5	8	MT agonist

		IFE WHICH		
MIGHI	BE BES	FOR <u>INIT</u>	IAL INSO	MNIA
Generic	Brand	T _{1/2} (Hours)	Dose (mg)	Drug Class
Flurazepam	Dalmane	48-120	15-30	BZD
Temazepam	Restoril	8-20	15-30	BZD
Triazolam	Halcion	2-6	0.125-0.25	BZD
Estazolam	Prosom	8-24	1-2	BZD
Quazepam	Doral	48-120	7.5-15	BZD
Zolpidem	Ambien	15-2.4	5-10	non-BZD
Zalepion	Sonata		5-20	non-BZD
Eszopiclone	Lunesta	5-7	1-3	non-BZD
Zolpidem Ext. Rel.	Ambien CR	1.5-2.4*	6.25-12.5	non-BZD
Ramelteon	Rozerem	1.5-5	8	MT agonist



		FE WHICH FOR <u>MIDI</u>		
Generic	Brand	T _{1/2} (Hours)	Dose (mg)	Drug Class
Flurazepam	Dalmane	48-120	15-30	BZD
Temazepam	Restoril	8-20	15-30	BZD
Triazolam	Halcion	2-6	0.125-0.25	BZD
Estazolam	Prosom	8-24	1-2	BZD
Quazepam	Doral	48-120	7.5-15	BZD
Zolpidem	Ambien	1.5-2.4	5-10	non-BZD
Zalepion	Sonata	1	5-20	non-BZD
Eszopiclone	Lunesta	5+7	1-3	non-BZD
Zolpidem Ext. Rel.	Ambien CR	1.5-2.4*	6.25-12.5	non-BZD
Ramelteon	Rozerem	1.5-5	8	MT agonist



		IFE WHICH		
MIGH	F BE BES	ST FOR <u>LA</u>	TE INSON	INIA
Generic	Brand	T _{1/2} (Hours)	Dose (mg)	Drug Clas
Flurazepam	Dalmane	48-120	15-30	BZD
Temazepam	Restoril	8-20	15-30	BZD
Triazolam	Halcion	2-6	0.125-0.25	BZD
Estazolam	Prosom	8-24	1-2	BZD
Quazepam	Doral	48-120	7.5-15	BZD
Zolpidem	Ambien	1.5-2.4	5-10	non-BZD
Zalepion	Sonata	1	5-20	non-BZD
Eszopiclone	Lunesta	5.7	1-3	non-BZD
Zolpidem Ext. Rel.	Ambien CR	1.5-2.4*	6.25-12.5	non-BZD
Ramelteon	Rozerem	1.5-5	8	MT agonis

PLUSES & MINUSES FOR EACH TREATMENT MODALITY

Benzodiazepines (e.g., Temazepam)

- + Good short term efficacy

- + Low interaction profile + High LD + Minor side effects (depending on 1/2 life)
- Not recommended for long term use
 Not curative (gains are lost when Tx is d/c)
 Rebound insomnia
 Suppresses SWS or REM
 Drug dependence (?) ASIDE ANDER PAIN

PLUSES & MINUSES FOR EACH TREATMENT MODALITY

Imidazopyridines / Non-benzodiazepines (e.g., Zolpidem, Zaleplon, Zopiclone)

- + Good "short" term efficacy + May be used safely up to 6 months (FDA SI REMOVED) + Low interaction profile + High LD

- + Few side effects
- + Doesn't suppress SWS or REM + Does not result in rebound insomnia
- Not curative (gains are lost when Tx is d/c) - Parasomnogenesis (pegged to zolpidem)



Ramelteon (Rozerem)

PLUSES & MINUSES FOR EACH TREATMENT MODALITY

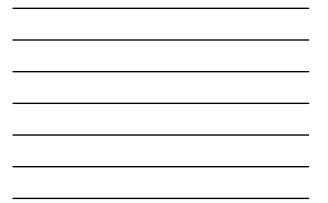
Melatonin Agonists (M1 receptor agonists)

- + "Established" efficacy + May be used safely for extended intervals + Low interaction profile (except fluvaxamine)
- + High LD
- + Few side effects (possible exception: gonadotrophic hormones)
 + Doesn't suppress SWS or REM
 + Does not result in rebound insomnia

- Not curative (gains are lost when Tx is d/c)

(SUB-OB ISSUE)

		PRE-POST Δ	
	SUB	<u>OB</u>	Δ
SL	10	15	-5
NWAK	1	2	-1
WASO	5	15	-10
TST	15	25	-10





PLUS & MINUSES FOR EACH TREATMENT MODALITY

Low Dose Tricyclics – Doxepin (not silenior)

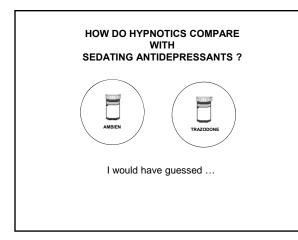
- + Good short term efficacy (WASO only)
 + Good durability (3 months)
 + No appreciable effects on Sleep Architecture
 + Minor side effects at hypnotic doses (?)
 + Data exists for long term administration in MDD
 + Low abuse potential

- Interacts with other meds (?)
 Possible cardiovascular effects (?)
 Anticholinergic side effects (?)
 Not curative (gains are lost when Tx is d/c)

PLUS & MINUSES FOR EACH TREATMENT MODALITY

Antidepressants (e.g., Amitriptyline, Trazodone)

- + Good short term efficacy (?)
- + Minor side effects at hypnotic doses (?)
- + Data exists for long term administration in MDD
- + Low abuse potential
- Interact with other meds (?)
- Possible cardiac toxicity (?)
- Anticholinergic side effects (?)
 PLMs as an iatrogenic effect (more so w/ amitriptyline)
 Off label prescription for Primary Insomnia
- Not curative (gains are lost when Tx is d/c)
 Rebound insomnia (?)
- -suppresses REM (not so much trazodone) Priapism



TRAZODONE AND ZOLPIDEM TREATMENT OF PRIMARY INSOMNIA Walsh, Hum Psychopharmacol, 1998

400

380

(min)

Sleep Duration (r

320

300

Baseline

Zolpidem n=100

Week 2

Trazodone n=98

Subjective Total Sleep Time

* p < 0.01

Week 1

Week 2

Subjective Sleep Latency * p < 0.01 ** p < 0.001

Week 1

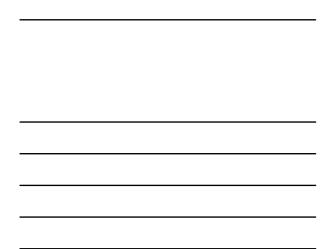
90

8

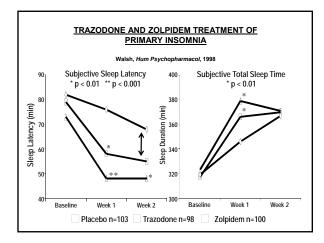
Sleep Latency (min)

50 40

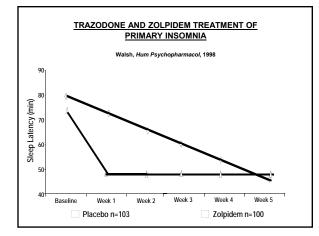
Baseline



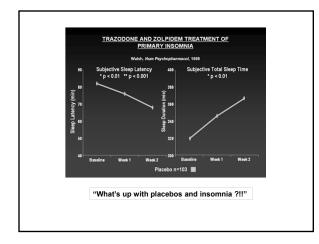


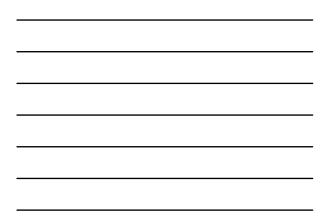






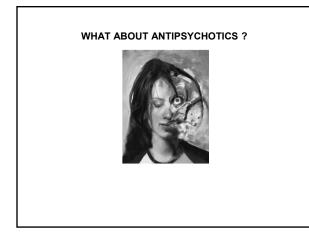


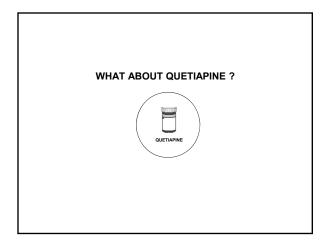












Psychopharmanelogy (2006) 194:307-338 DOI 14.1007/s00213-007-0948-8	
LETTIR TO THE EDITORS	
Quetiapine in primary insomnia:	a pilot study
Michael H. Wiegand - Pierontina Landry - Taraten Brückner - Corina Pohl - Zdanko Visuly - Thomas Jahn	
Received, 21 September 2017/Assepted, 26 September 2017/Publishe © Spinger-Netwy 2007	anliar: 6 Oatsbar 2887
A measure of these means, here dependent on the second sec	and the set of the se
kinaringer 50.22, 81475 Munich, Germany	was most clear in the subjective sloop variables as assessed by means of the PSQI and the patients' sloop diaries. The



 Psychopharmacology (2008) 196:337–338

 Table 1 Selected objective alorp parameters resulting from polysomography and PSQI ratings

 T₁ (baseline)
 T₂ (2 weeks mod.)
 p
 T₃ (6 weeks mod.)
 p

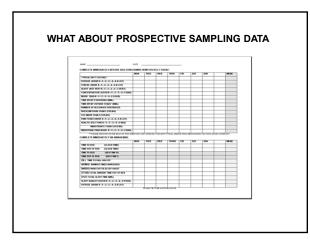
 Objective alorp quality (polysomography)

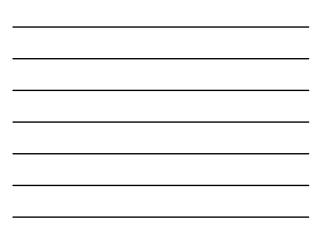
 Subjective alorp quality (polysomography)

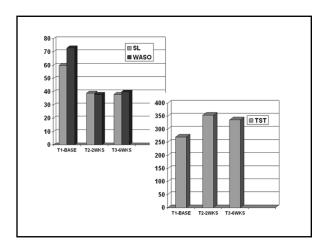
 Subjective alorp quality (PSQI cores)

 Total score
 (3.1+2.3
 9.1+3.3
 0.00
 6.8±3.3
 0.00

 Precented are means #SD. "p" refers to the change from baseline (Wilcoxon's test, two-tailed).
 REM Rapid cye movements, *SPT* skep period time, *PSQI* Pittobargh Skep Quality Inventory





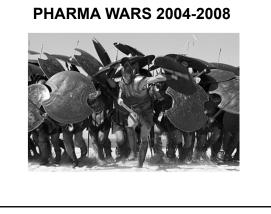


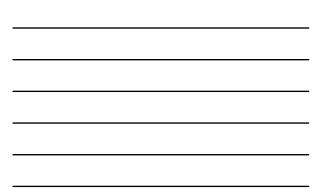












TREATMENTS IN RnD



NEW THERAPIES 2004-2008

- Single Isomer Versions of "BZRAs" (Eszopicione)
 Modified Release Versions of "BZRAs" (Zolpidem-CR)

- Modified Release Versions of "BZRAS" (Zolpidem-CF Orexin Antagonists Longer ½ life melatonin agonists 5HTZA antagonists NK antagonists Atypical BZRAs (bind on cell body vs. the synapse) GABA Re-uptake Inhibitors & GABA Agonists

IN SUM

BZRAS HAVE GOOD EFFICACY AND APPEAR REASONABLE SAFE

SADs APPEAR TO HAVE GOOD EFFICACY THOUGH THERE ARE CONCERNS ABOUT ADVERSE EVENTS

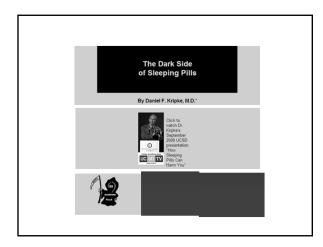
MELATONIN AGONISTS ARE "IFFY"

ANTIPSYCHOTICS "THE JURY IS OUT"



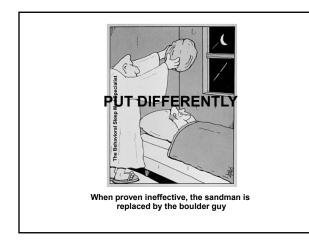
	NIH – 1983	NIH – 2005
Definition		
Treatment		
Other		

NOT EVERYONE, HOWEVER, IS KEEN ON BZRAS





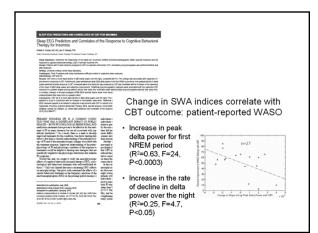
AND NOW A WORD FROM OUR SPONSOR



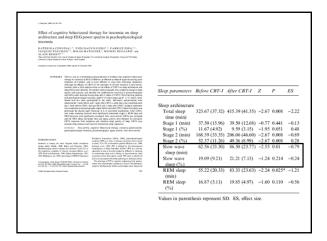


Behavior Therapy

- + Good "short" & long term efficacy
- + No issues re: drug interactions (?)
- + Does not alter sleep architecture (or maybe it does)
- + No rebound insomnia
- + No abuse potential
- + No issues re: LD
- Takes between 3 8 weeks
- Transient worsening of symptoms (1-2 weeks)
- Requires substantial patient compliance
- Only effective as practiced by specialists (?)









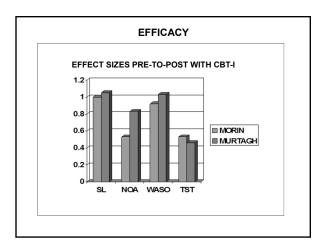


There is now an overwhelming preponderance of evidence that Cognitive Behavioral Therapy for insomnia (CBT-I) is efficacious, effective, as efficacious as sedative hypnotics during acute treatment (4-8 weeks), and is more efficacious in the long term (following treatment)

EFFICACY

Morin et al. Nonpharmacological interventions for insomnia: a meta-analysis of treatment efficacy. Am J Psychiatry 1994; 151(8):1172-1180.

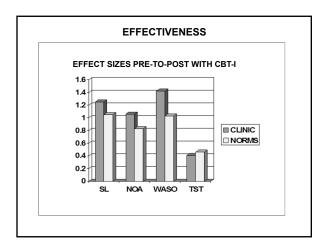
Murtagh et al. Identifying effective psychological treatments for insomnia: a meta-analysis. J Consult Clin Psychol 1995; 63(1):79-89.



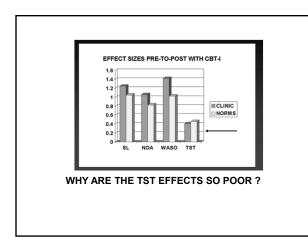
EFFECTIVENESS

AN EXAMPLE

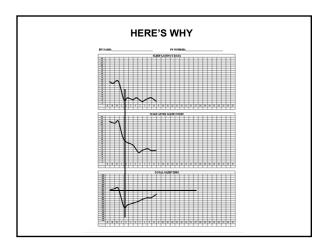
Perlis, M, Aloia M, Boehmler J, Millikan A, Greenblatt D, Giles D. Behavior treatment of insomnia: a clinical case series study. <u>The</u> <u>Journal of Behavioral Medicine.</u>23(2)149-161, 2000.



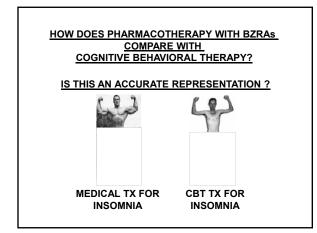




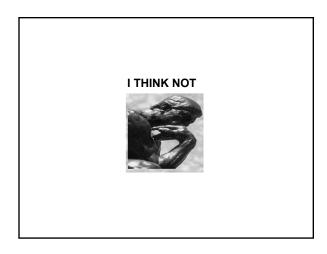


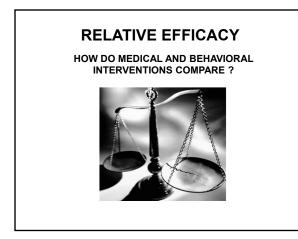


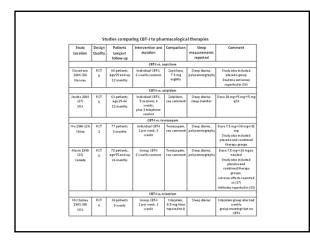










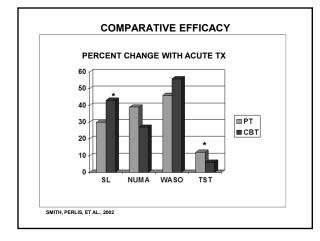




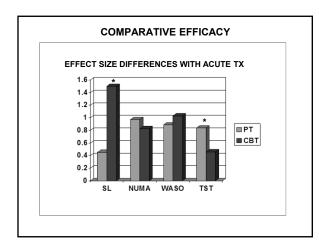
RELATIVE EFFICACY

HOW DO MEDICAL AND BEHAVIORAL INTERVENTIONS COMPARE ?

Smith MT, Perlis, ML, Park A, Giles DE, Pennington JA, Buysse, D. Behavioral treatment vs pharmacotherapy for Insomnia - A comparative meta-analyses. <u>American Journal of Psychiatry</u>. 159: 5-11. 2002.









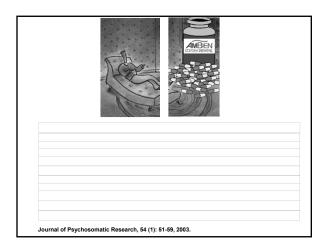


CBT & PCT HAVE "EQUIPOTENCY" IN SHORT RUN

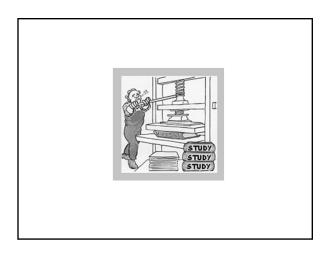
AND

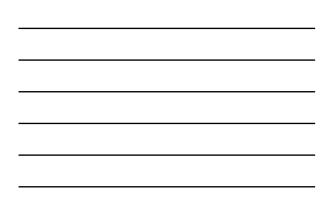
CBT HAS BETTER EFFICACY IN THE LONG RUN (MAYBE – ASK AT BREAK)

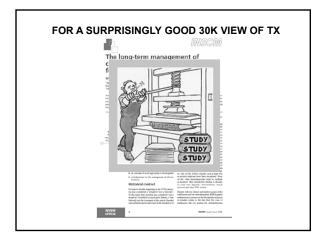




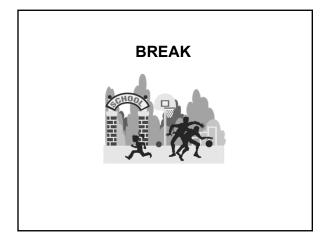


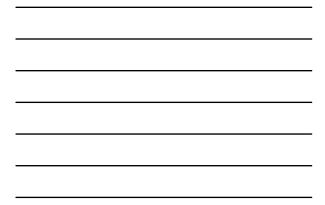


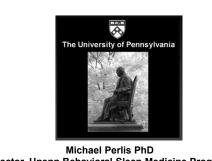




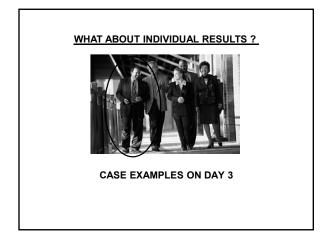








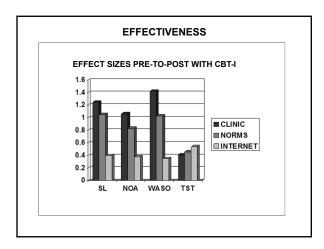
Michael Perlis PhD Director, Upenn Behavioral Sleep Medicine Program mperlis@upenn.edu



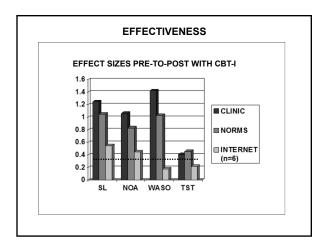








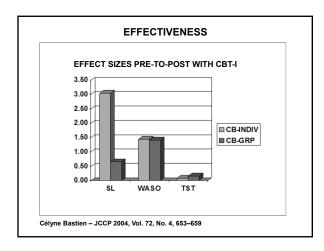








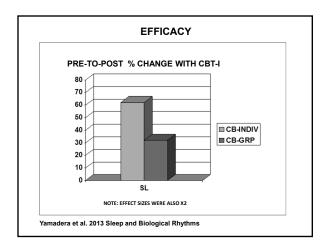




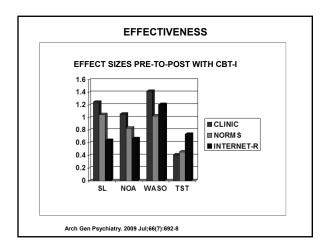




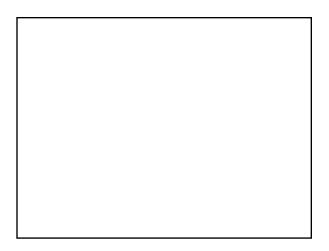


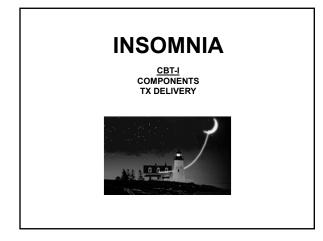












OK. SO IT WORKS. WHAT IS IT ?



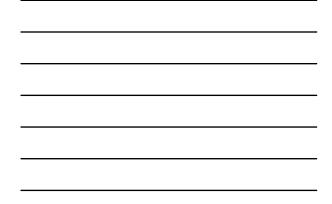
A HX PERSPECTIVE COGNITIVE & BEHAVIORAL TXs

SEPT 29, 1894-] EAU-DE-COLOGNE TIPPLERS. [MINIMA 2078AL 719

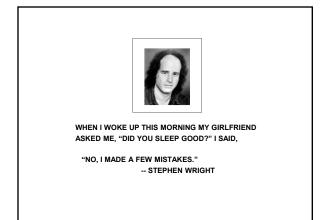
SLEEPLESSNESS. culled from the *Glasgow Herald* :

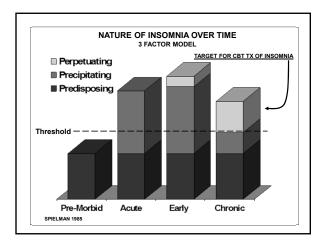
Scap your head with the ordinary yellow scap; rub it into the roots of the hair until your head is just lather all over, its it up in a mapking go to bed, and wash it out in the morning. Do this for a fortnight. Take no feas alter 5 P.m.



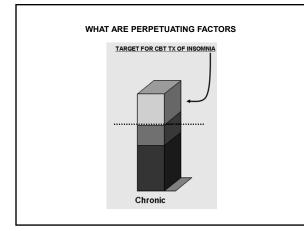








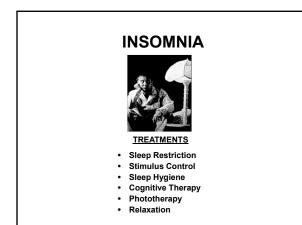


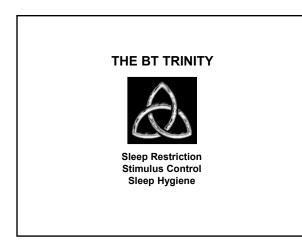




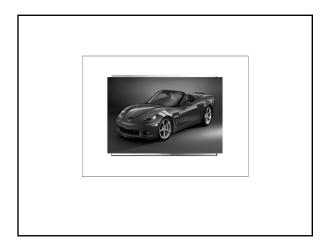
	PETUATING FACTORS
Common Compensatory Strategies Used to Cope with Insomnia	
COMPENSATORY STRATEGY	EFFECT ON SLEEP
EXTENDING SLEEP OPPORTUNITY	
Go to Bed Early	De-primes "sleep homeostat" leading to insomnia and shallor sleep. Possible circadian dysregulation
Sleep in (Wake up later)	De-primes "sleep homeostat" Possible circadian dysregulatio
Napping	De-primes "sleep homeostat."
COUNTER FATIGUE MEASURES	-
Increased use of stimulants and/or inappropriately-timed use of stimulants	Increases sleep interfering states of arousal.
Avoid or decrease physical activity	May de-prime "sleep homeostat." Can lead to conditioned arousal if increased time spent resting in bed or in bedroom.
RITUALS & STRATEGIES	
Stay in bed and wait	Promotes a lack of stimulus control.
Increase in non-sleep behaviors in the bedroom "kill time"	to Promotes a lack of stimulus control.
Sleep somewhere other than the bedroom	Promotes a lack of stimulus control.
Engage in "ntuals" which are thought to promote sleep (use of special herbs, teas, etc.)	Promotes a dependence on the behaviors and anticipatory anxiety when not available.
Avoidance of behaviors thought to inhibit sleep (e.g., sex, going outdoors near bedtime, etc.)	Promotes anticipatory anxiety when behaviors occur



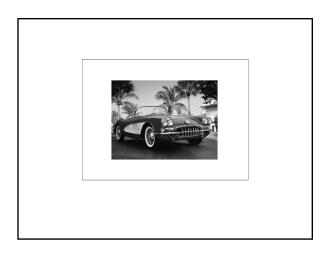




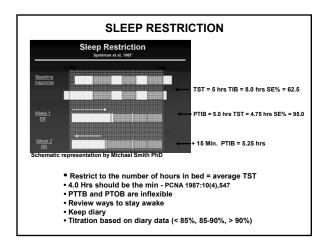




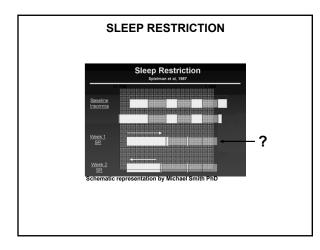




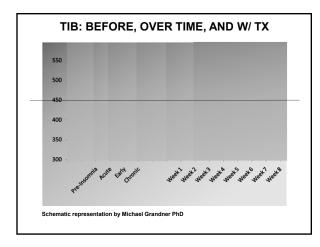






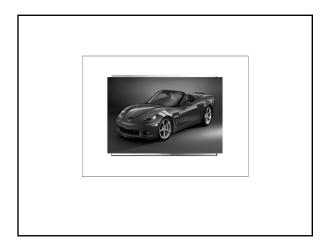




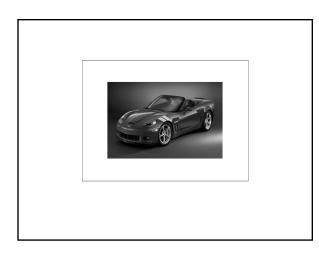












STIMULUS CONTROL

1. Lie down to go to sleep only when you are $\underline{\text{sleepy}}$ / sleep only in the bedroom.

2. Do not use your bed for anything except sleep and sex.

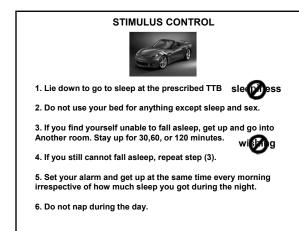
3. If you find yourself unable to fall asleep, get up and go into another room. Stay up as long as you wish and then return to the bedroom to sleep.

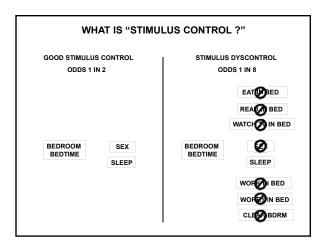
4. If you still cannot fall asleep, repeat step (3).

5. Set your alarm and get up at the same time every morning irrespective of how much sleep you got during the night.

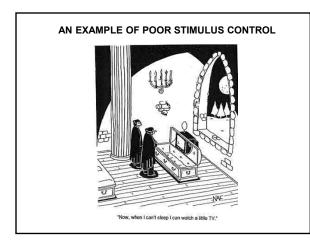
6. Do not nap during the day.

Disclaimer--illness & driving

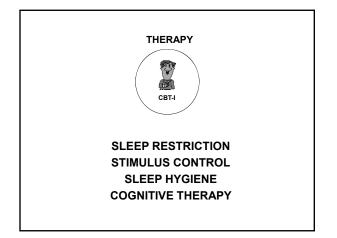


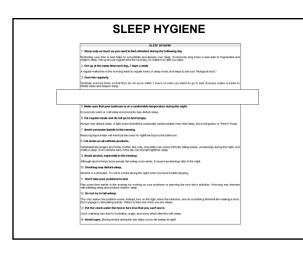


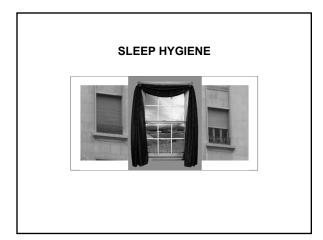






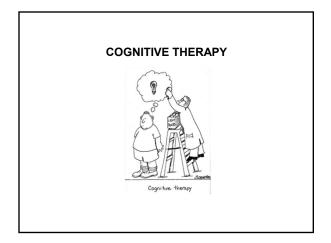












OFTEN NOT A PART OF "CBT"

WHEN INCLUDED IT'S NOT WELL STANDARDIZED NOT WELL EVALUATED

TWO TYPES: GENERAL CT AND TARGETED CT

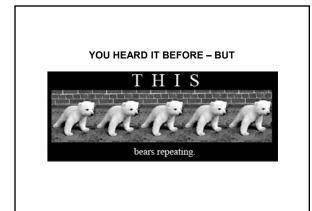
COGNITIVE THERAPY – GENERAL

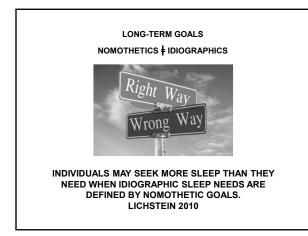
SETTING EXPECTATION & INSURING COMPLIANCE

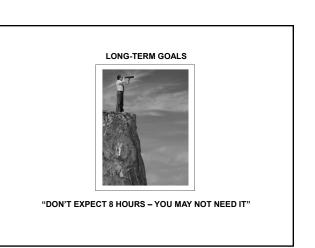
- WILL GET WORSE BEFORE BETTER
- COMMIT TO THE PROCESS (# of nights)
- LONG-TERM GOALS

DON'T EXPECT TO SLEEP LIKE A BABY NEVER HAVE ANOTHER NIGHT OF INSOMNIA

 THINK OF ACUTE INSOMNIA IN RESPONSE TO STRESS AS A SOLUTION VS A PROBLEM

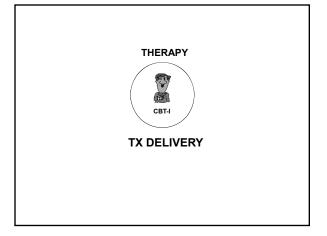






COGNITIVE THERAPY - TAP	RGETED
TYPES	
DEBUNKING DYSFUNCTIONAL BELIEFS	- MORIN
COGNITIVE RESTRUCTURING	- HARVEY
WORRY AND RUMINATION ATTENTION BIAS SAFETY BEHAVIORS	
DECATASTROPHIZATION	- PERLIS





PURPOSES EXTEND WAKEFULNESS TO P-TTB TREAT SUB-CLINICAL PHASE SHIFTS

WHEN INCLUDED IT'S NOT WELL STANDARDIZED NOT WELL EVALUATED

USUALLY NOT A PART OF "CBT"

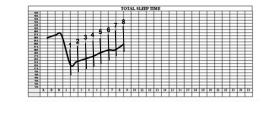


WHAT ABOUT BRIGHT LIGHT THERAPY ?

THERAPY SCHEDULE Image: Colspan="2">Image: Colspan="2" The Col

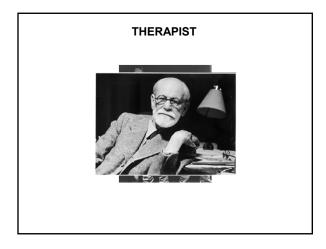
WHY 8 SESSIONS ?

HERE'S 8 REASONS (ASSUMING PERFECT COMPLIANCE)

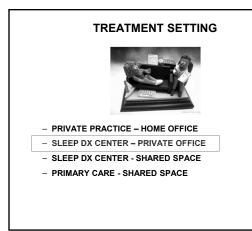


WHY 8 SESSIONS ?

- WHAT AMOUNT OF SUCCESS GUARANTEES COMPLIANCE ?
- WHAT AMOUNT OF BEHAVIORAL CHANGE CHANGES COGNITION ?
- HOW MUCH IMPROVED SLEEP LEADS TO COUNTER CONDITIONING
- AND FOR THAT MATTER HOW MUCH TREATMENT IS REQUIRED/STANDARD FOR CBT FOR OTHER ILLNESSES ?!





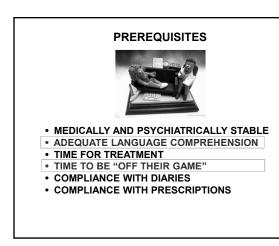


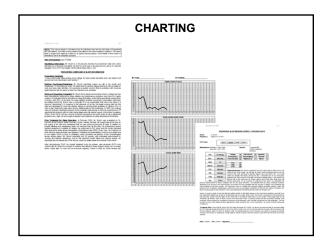


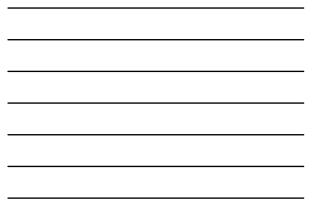
SETTING EXPECTATIONS

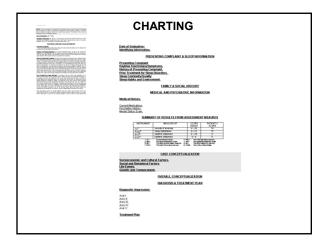


- THEY ARE IN "THE RIGHT PLACE WITH THE RIGHT PERSON"
- THERAPY IS SHORT TERM (6-12 WEEKS)
- THEY WILL GET WORSE BEFORE THEY GET BETTER
- LONG-TERM GOALS (BABY AND NEVER AGAIN)
- WHAT'S LEARNED IS FOR LIFE...
- TX IS VERY EFFECTIVE
- TO GAIN THEY MUST COMPLY

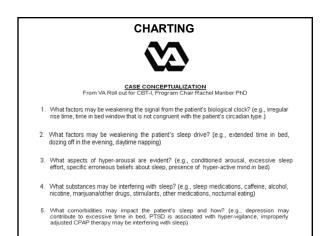


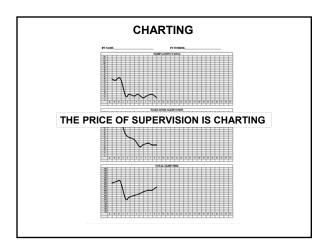


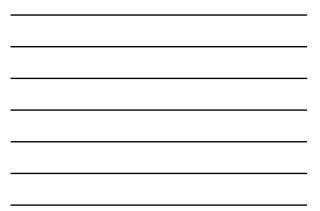






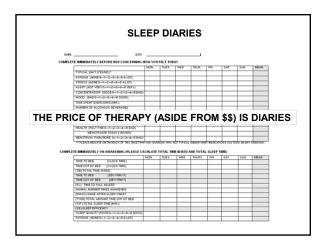




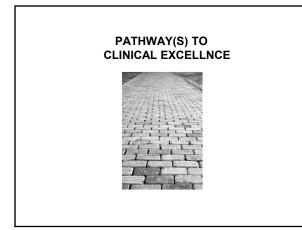


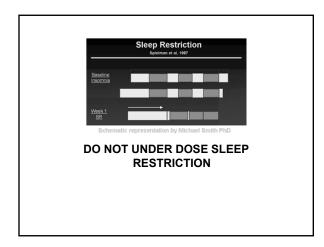
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	Name: S.Buich Session 2: Adjust STC & SRT
Description Description Description Description 100 <t< td=""><td>fedications: Ravitidine 75mg, Daily</td></t<>	fedications: Ravitidine 75mg, Daily
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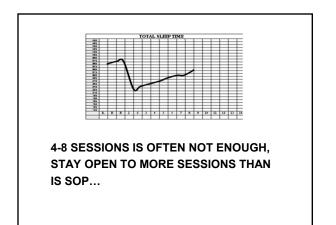




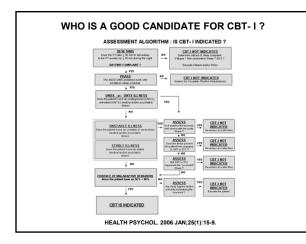




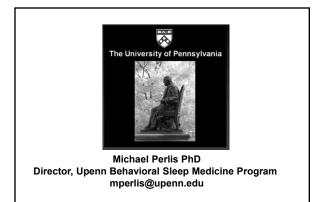


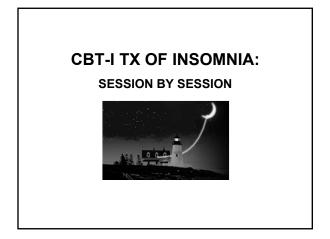














TALK 3 - Session 3 -Compliance -Sleep Hygiene

TALK 4 - Session 4 Titration & compliance

<u>TALK 5</u> Cognitive Therapy

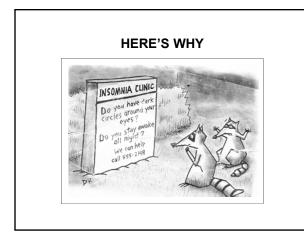


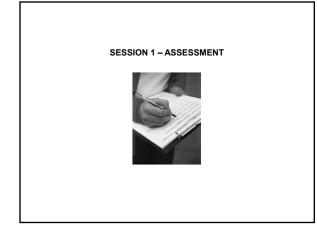
CONDUCT TX BY THE BOOK



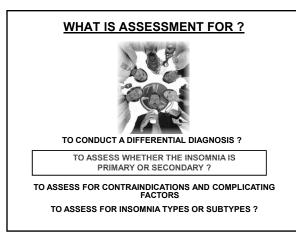


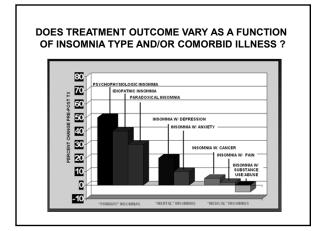


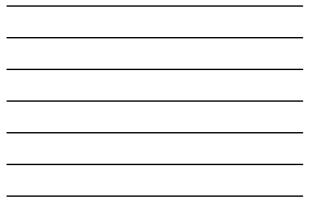


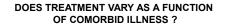


BSBM ASSESSMENT Session One (Intake Evaluation: 92-180 million) Taskis Introduce yourself to the publicht Complete Intake Questoonnaares Conduct Clinical Interview Centering Pattern ta candidate for CBT-L Determine other Headment Options Present An Overview of Treatment Options Omer Patient Sure Sep Daby Clan Castioprint) Field Patient Questions & Address Resistances Setting the Weekly Agenda





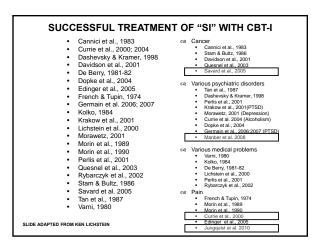




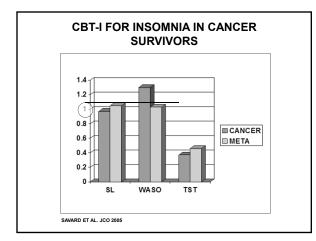
<u>Schoofferannsonwer</u>: The data tondate suggest That

<u>CBT-I</u> IS EQUALLY EFICACIOUS FOR "PRIMARY AND SECONDARY" INSOMNIA

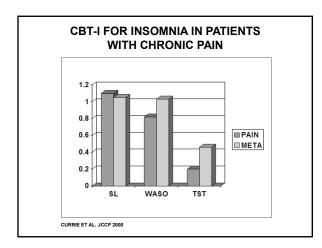
MEDS APPEAR TO BE MORE EFFICACIOUS WITH "PRIMARY" INSOMNIA



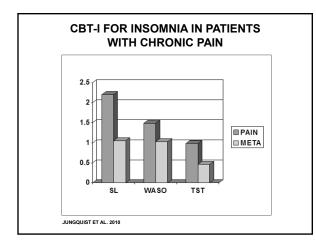




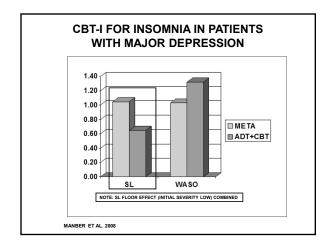








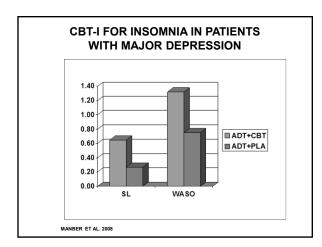




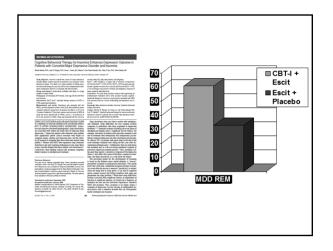








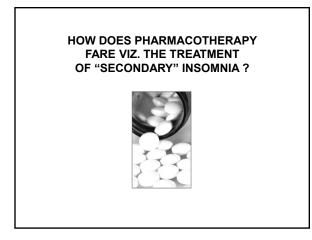


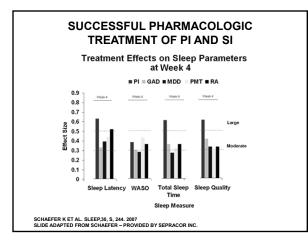






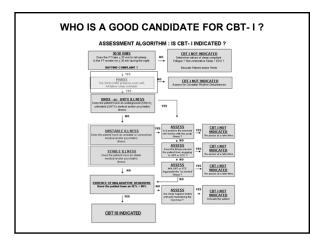




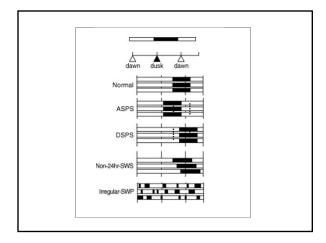




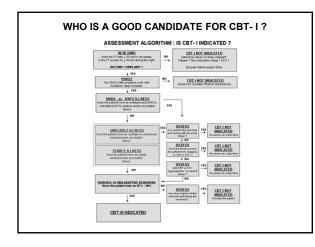




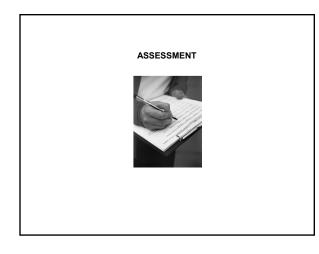














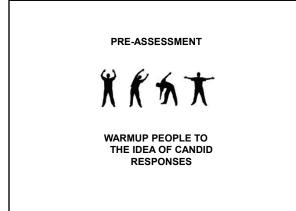


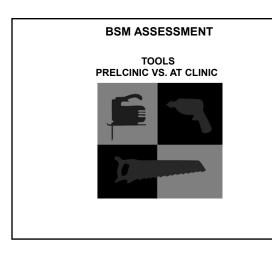
TO CONDUCT A DIFFERENTIAL DIAGNOSIS ?

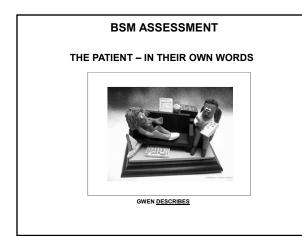
TO ASSESS WHETHER THE INSOMNIA IS PRIMARY OR SECONDARY ?

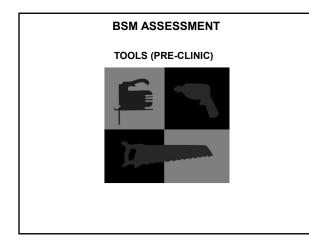
TO ASSESS FOR CONTRAINDICATIONS AND COMPLICATING FACTORS

TO ASSESS FOR INSOMNIA TYPES OR SUBTYPES ?

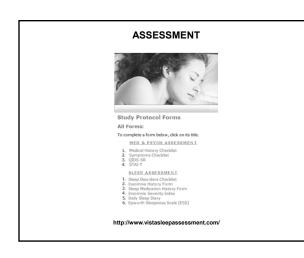


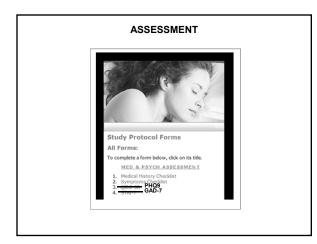


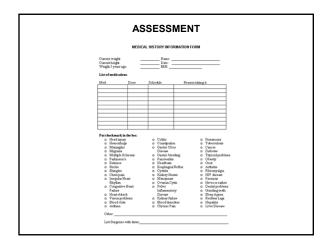




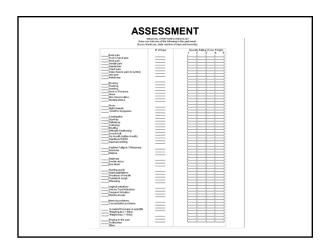




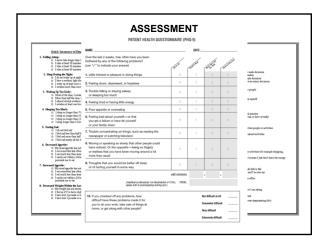










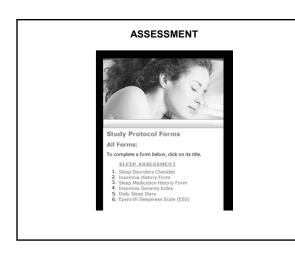


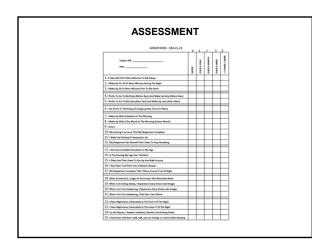


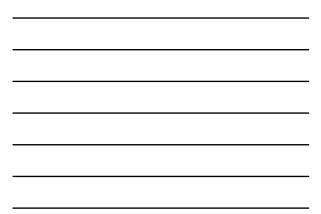
ASSESSMENT

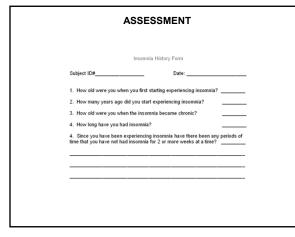
following problems?	Not at	Several days	More than half the days	Nearly every day
(Use "D" to indicate your answer)	-			
1. Feeling nervous, anxious or on edge	0	1	2	3
2. Not being able to stop or control worrying	0	1	2	3
3. Worrying too much about different things	0	1	2	3
4. Trouble relaxing	0	1	2	3
5. Being so restless that it is hard to sit still	0	1	2	3
6. Becoming easily annoyed or irritable	0	1	2	3
7. Feeling afraid as if something awful might happen	0	1	2	3



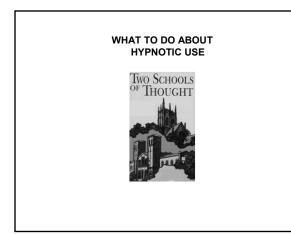


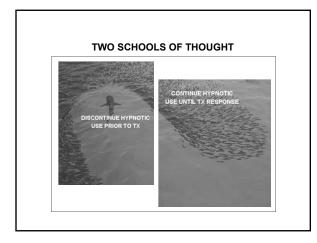






Sleep Medication H	listory	Form				
Please include all:						
> Rx medications that > OTC medications that						
Medication	EverU		Start Date (or estimate)	Stop Date (or ongoing)	Effectiveness	Pating Scale
Ambien/Zolpidem		ONo	Start Date (or estimate)	Stop Date (or ongoing)	Select rating	~
Ambien CR/Zolpidem Ext. R	OYes	ONO			Select rating	~
Dalmane/Flurazepam	OYes				Select rating	~
Doral/Quazepam	OYes	ONO			Select rating	~
Halcion/Triazolam	⊙ Yes	O No			Select rating	~
Lunesta/Eszopiclone	⊙ Yes	O No			Select rating	~
Prosom/Estazolam	OYes	O No			Select rating	~
Restoril/Temazepam	⊙ Yes	O No			Select rating	~
Rozerem/Ramelteon	⊙ Yes	O No			Select rating	~
Sonata/Zalepion	⊙ Yes	O No			Select rating	~
Melatonin	⊙ Yes	O No			Select rating	~
Unisom	⊙ Yes				Select rating	~
Benadryl	⊙ Yes				Select rating	~
	⊙ Yes				Select rating	~
	⊙ Yes				Select rating	~
	⊙ Yes				Select rating	~
	⊙ Yes				Select rating	~
	⊙ Yes				Select rating	~
	⊙ Yes	O No			Select rating	~









IF HYPNOTICS WERE WORKING... THE PATIENT WOULD NOT BE SEEKING HELP

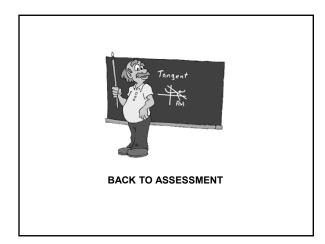
BETTER A SETBACK NOW THAN AFTER TX GAINS

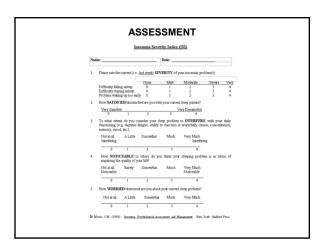
WORSENING UPFRONT SETS UP QUICKER AND LARGE TX GAINS

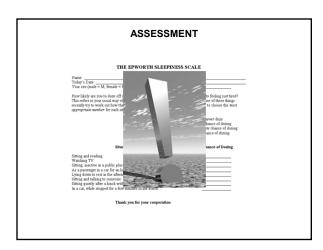


- WEEK 1 7 days 1/2 dose
- WEEK 2 7 days every other day ½ dose WEEK 3 2 days (Fixed) ½ dose
- WEEK 4 2ND Baseline week

VERY CONSERVATIVE

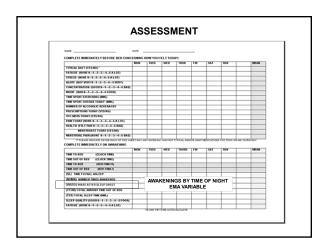




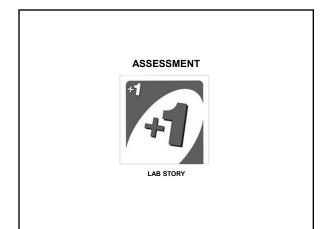


NME									
COMPLETE IMMEDIATELY DEFORE BED CONC	ERNING	HOW YOU	EELT 100	ay:					
[MON	TUES	WED	THUR	18	SAT	SUN	_	MEAN
TYPICAL DAY? (YES:NO)*									
FATIGUE (KONE 8-1-2-3-4-5 ALOT)									
STRESS (BORE #-1-2-3-4-5 ALOT)		1				1			
ALERT (NOT VERY 8-1-2-3-4-5 YERY)									
CONCENTRATION (GOOD B-1-2-3-4-5 BAD)									
M000 (BAD 8-1-2-3-6-5 C000)									
TIME SPENT EXERCISING (MIK.)									
TIME SPENT OUTSIDE TODAY (MIN.) NUMBER OF ALCOHOLIC BEVERAGES									
NUMBER OF ALCOHOLIC BEVERAGES									
OTC MEDS TODAY (YES/NO)	<u> </u>			-					-
PAN TODAY (NONE 4 1-2-3-4-5 ALOT)		-		-	-				-
HEALTH OTILT FINE 8-1-2-3-4-5 BAD		-			-				-
MENSTRUATE TODAY (VES.NO)		-		-	-				-
MENSTRUAL PAIN (NONE 8-1-2-3-4-5 BAD		-			-				-
- FLEASE INDICATE ON THE EACK OF THIS SH	LET WHY A	NTONENDA	TOWAS NOT	TIPICAL AN	SCR WHAT M	DICATION	VOU TOOK C	ANT GIVE	CAY.
COMPLETE IMMEDIATELY ON AWAKENING									
	MON	TUES	WED	THURS	18	SAT	SUN	1	MEAN
TIME TO BED (CLOCK TIME)									
TIME OUT OF BED (CLOCK TIME)					-	-	-		
TIME TO BED (DEV FIRM 91)									
THE OUT OF BES (DEV FRM 7)	_								
(SL) THE TOTALL ASLEEP			1	-		-	1		
(NUMA) NUMBER TIMES AWAKEKED									
(WASO) WARE AFTER SLEEP ORSET			1						
(TTOD TOTAL AMOUNT TIME OUT OF BED									
							+		
(TST) TOTAL SLEEP TIME (MIK)			1						
		-	-	-	-	-	-	-	-



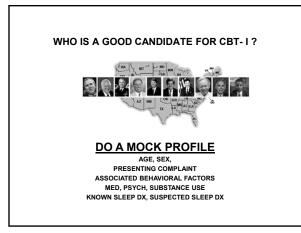


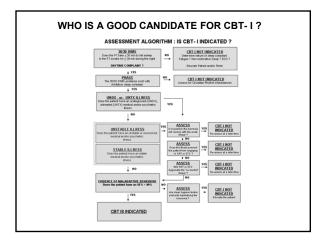




ASSESSMEN	IT

	SI	EEP ENVIRONMENT QUESTIONNAIRE
1. Luse an alarm	clock five or n	tore days a week.
True	False	Not Applicable
2. I keep the temp warm at night	perature in the	bedroom so cold that I have 2 or more blankets on the bed to stay
True	False	Not Applicable
3. The blinds and to tell that the sur	curtains in th came up.	e bedroom are so effective that at sunrise the room is so dark its har
True	False	Not Applicable
4. I have spent re	al time and m	oney making sure that my mattress and pillow are perfect for me.
True	False	Not Applicable
During the night road, neighbors,	t, my bedroor etc.	n is insulated so well that I rarely if ever hear outside noise from the
True	False	Not Applicable
House noise fr sounds.	om the radiato	rs, foor boards, etc. is so minimal that I am rarely aware of such
True	False	Not Applicable
 My home is a r and support of m being safe at night 	r neighbors pr	partner and/or pet and/or the locks and alarm system and/or concer ovides me a level of comfort such that I rarely if ever worry about
True	False	Not Applicable
8. On three or mo bedroom: watch 1	re nights per TV, read, plan	week, I engage in two or more of the following behaviors in the worry, work, clean, or eat).
True	False	Not Applicable
9. My pets rarely	if ever keep m	e from falling asleep or wake me up during the right.
True	False	Not Applicable
10. My bed partn covers, snoring, e	er's sleep sch tc.) rarely if e	edule or "habits" while in bed (reading, moving about, stealing the ver disturb my sleep.
True	False	Not Applicable
11. My child's/chi disturb my sleep.	ldren's sleep :	schedule or "habits" while in bed or during the night rarely if ever
True	False	Not Applicable







SESSION-1 "TO DO LIST"

Tasks
Introduce yourself bit patient
Complete Intake Ouestionnaires
Conduct Clinical Interview
Determine if patient is a candidate for CBT-I.
Untermine other treatment options
Orient Patient to the Sleep Diary (and actigraph)
Field Patient Cuestions & Address Resistances
Setting the Weekly Agenda

TREATMENT OPTIONS/PROCESS

THE PATIENT NEEDS TO KNOW THE PLAN

1 WEEK OF BASELINE AND WHY (SANS CLOCK)

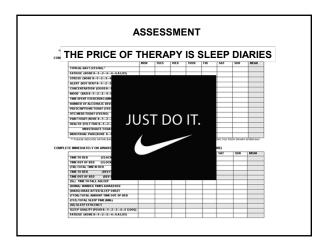
THAT THEY WILL DECIDE NEXT WEEK WHAT TX

OPTIONS DELAY TREATMENT BEGIN TREATMENT WITH SLEEP MEDS BEGIN TREATMENT BY D/C SLEEP MEDS

IN THE BAG SLEEP COMPRESSION, THE ISR PROCEDURE, BRIGHT LIGHT, RELAXATION TRAINING, CBT+M, MEDS ALONE

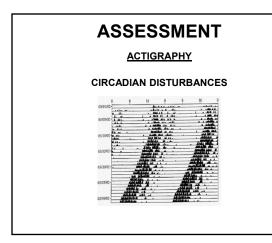
SESSION-1 "TO DO LIST"

Tasks
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Complete Intake Outestionnaires
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Determine other treatment options
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Field Patient Questions & Address Resistances
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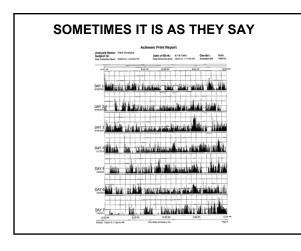




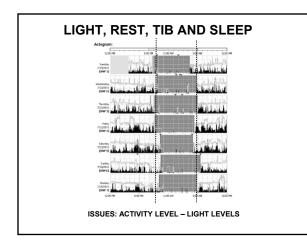


	ASSESS						
	ACTIGRAPHY						
SUB-OB DETECTION							
		. VS - ■ ■ ■ ■ ■ ■ ■ ■ ■ ■					

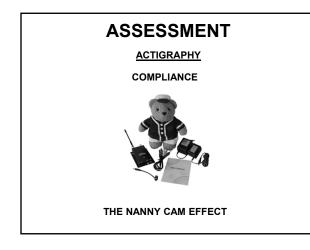






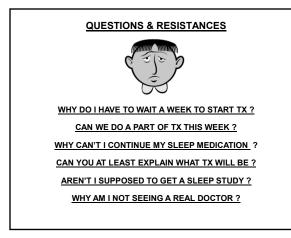






SESSION-1 "TO DO LIST"

Tasks	
Introduce yourself to the patient	,
Complete Intake Questionnaires	,
Conduct Clinical Interview	
Determine if patient is a candidate for CBT-I.	,
Determine other treatment options	,
Present An Overview of Treatment Options	,
Orient Patient to the Sleep Diary (and actigraph)	1
Setting the Weekly Agenda	



SESSION-1 "TO DO LIST"

 Tasks

 Introduce yourseft to the patient
 ✓

 Complete intake Questionnaires
 ✓

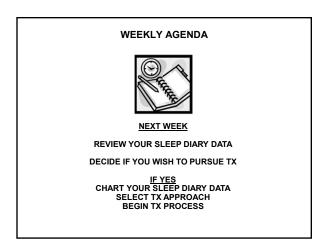
 Conduct Clinical Interview
 ✓

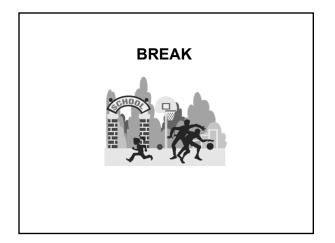
 Determine if patient is a candidate for CBT-I.
 ✓

 Present An Overweit of Treatment Options
 ✓

 Orient Patient to the Sleep Diary (and actigraph)
 ✓

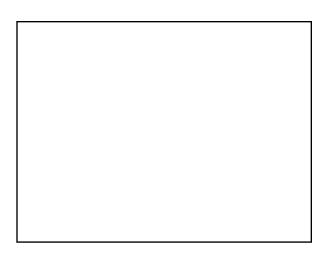
 Field Patient Questions & Address Resistances
 ✓











CBT-I FOR INSOMNIA IN PATIENTS WITH MAJOR DEPRESSION

SL-Post

38.07(24.14) 21.28(22.20)

44.77(51.02) 33.65(33.53)

SL-Pre

 \frown

NOTE: BASELINE

SL WAS MINIMAL

SO CHANGE WAS

MINIMAL

111.03(63.56)

103.37(59.10)

WASO-Pre WASO-Post

47.56(57.61)

61.87(57.71)

1.40

1.20

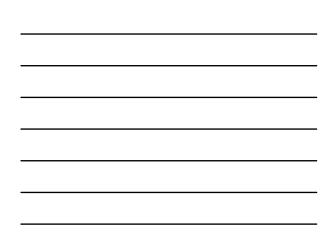
1.00

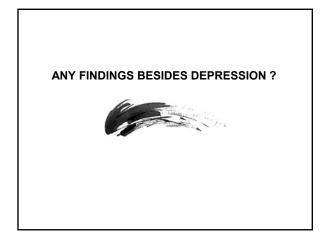
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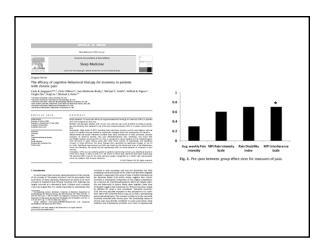
0.60

0.40 0.20 0.00

Escit + CBT-I Escit + Ctrl







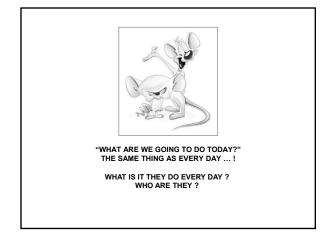




SESSION - 2 TREATMENT INITIATION

Session Two (Treatment Initiation: 60-120 min.)

Tasks Summarze & Graph Seep Dary Determine Textener Plan Perken Step Diary Data - mismatch" Introduce Behavioral Model of Insomnia Setting up Siep Settiricition and Stimulus Control Set Francy Diary Set Strategy How to stay awake to the prescribed hour What to do with WASO time

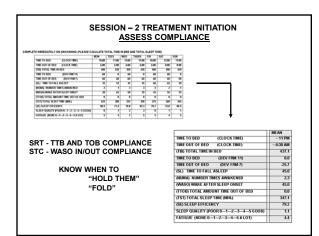


SESSION – 2 TREATMENT INITIATION

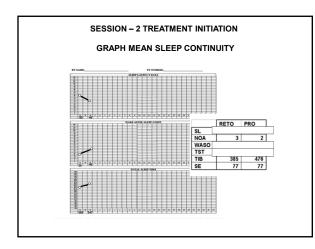
Tasks Determine Treatment Plan Review Sleep Dlary Data – "mismatch" Introduce Behavioral Model of Insomna Setting us Sleep Restriction and Stimulus Control Set Prescription (18 & TOB) Set Strategy How to stay awake to the prescribed hour What to do with WASO time

PLETE IMMEDIATELY ON AWAKENING (PLEASE CA											
TIME TO BED (CLOCK TIME)	MON THE SE-00	1100	NED T 12:00	11:00	FRI S	AT 9	2N 1100				
TIME FOR BED (CLOCK TIME)	600	6.00	6.00	6.00	6.00	100	8.00				
(THE TOTAL TIME IN BED	400	400	30	400	485	486	400				
TIME TO BED OF VERM 15		-					-				
TIME OUT OF BED (DEV FRM 7)	40	40	40	48	48	- 68	60				
(SL) TIME TO FALL ASLEEP		- 55	45	- 8	68	45	20			_	
INUMAL NUMBER TIMES AWARENED	2	- 1	3	3	4	2	- 1				
(WASO) WARE AFTER SLEEP ONSET	20	- 65	68	35	8	55	35				
(TTOE) TOTAL AMOUNT TIME OUT OF BED	0	0	0	0							
(TST) TOTAL SLEEP TIME (MIN.)	48	300	255	358	325	348	365				
(SI) SLEEP EFFICINCY	813	714	78.8	83	78.1	75.8	86.5				
SLEEP GUALITY (FOOR 8-1-2-3-4-5 G000) FATICIE (NONE 8-1-2-3-4-5 A LOT)	0										
	5	4	2	3	8	1	1			ţ	
					8					ţ	MEAN
	5	i	3	5	5			O BED	(CLC		
PAPER DIARIES 8	5	i	3	5	5		TIMET	O BED		DCK TIME)	~ 11 Ph
PAPER DIARIES & I-PHONE APPS,	s EXC	EL	vs.	; PD/	, As,		S TIME T	0.040	(CLC		~ 11 Ph ~ 6:30 AM
I-PHONE APPS,	s EXC	EL	vs.	; PD/	, As,		S TIME T	UT OF BED	(CLC N BED		~ 11 PM ~ 6:30 AM 437.
I-PHONE APPS,	& EXC	EL	vs.	; PD/	, As,		TIME T TIME O (TIB) TO TIME T	UT OF BED	(CLC N BED (DE	OCK TIME)	~ 11 Ph ~ 6:30 Ah 437. 0.1
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I-PHONE APPS, DIAF THE UTILITY (& EXC , AND RIES.	EL INT	vs. ERI	PD/ NET	, As,		TIME T TIME O (TIB) TO TIME T TIME O (SL) T (NUMA (WASO	UT OF BED OTAL TIME II O BED UT OF BED IME TO FALL NUMBER 1	(CLC N BED (DE (D) ASLEE IMES AV ER SLEI	OCK TIME) V FRM 11) EV FRM 7) P WAKENED	~ 11 Ph ~ 6:30 Ak 437. 00 -250 450 22 450
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I-PHONE APPS, DIAF THE UTILITY (RITI	& EXC , AND RIES. OF TH UAL.	EL INT	vs. TERI	PD/ NET	As,		TIME T TIME T TIME O (TIB) TO TIME T TIME O (SL) T (NUMA (WASO (TTOB) (TST) T (SE) SL	O TAL TIME II O BED DUT OF BED UIT OF BED IIME TO FALL O NUMBER T O WAKE AFT TOTAL AMC OTAL SLEEP LEEP EFFICE	(CLC N BED (DE (DE IMES AN ER SLEE DUNT TH P TIME (I NCY	V FRM 11) EV FRM 7) P WAKENED EP ONSET ME OUT OF BED	~ 11 Pk ~ 6:30 Ak 437. 0.1 -25. 45.1 2. 45.1 0.1 347. 79.2





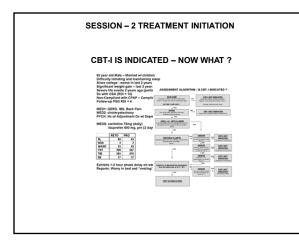






SESSION – 2 TREATMENT INITIATION

Tasks Summarize & Graph Sleep Diary Review Sleep Diary Data – rinsmatch* Introduce Behavioral Model of Insonnia Setting up Sleep Restriction and Stanuar Control Set Principion (TE & TOB) Set Strategy Holw to stay awake to the prescribed hour What to do with VASO time

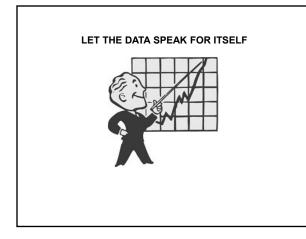


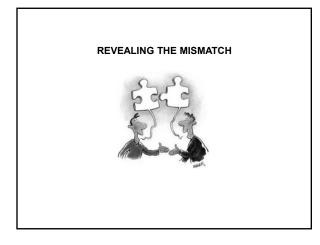




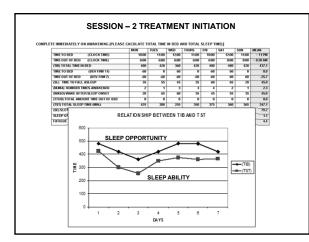
SESSION – 2 TREATMENT INITIATION

Tasks
Summarize & Graph Siego Diary
Determine Treatment Plan
Introduce Behavioral Model of Insomnia
Seting up Siege Restriction and Stimulus Control
Set Prescription (TIB & TOB)
Set Stategy
Holw To stay awake to the prescribed hour
What to do with WASO time



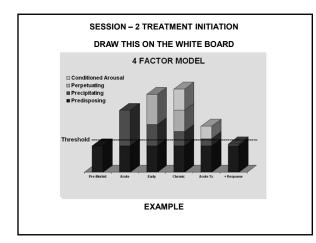




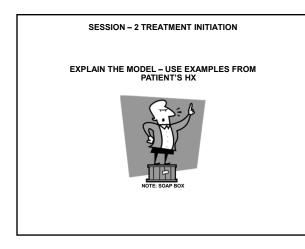


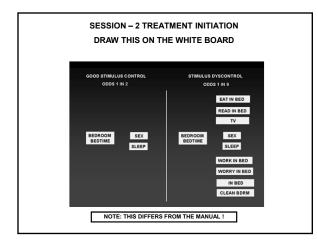


Tasks Summarize & Graph Sileep Diary Determine Treatmert Plan Review Sileep Diary Data – "mismatch" Setting up Sileep Restriction and Stimulus Control Sett Prescription (Tile & TOB)
Determine Treatment Plan Review Sleep Dlary Data – "mismatch" Setting up Sleep Restriction and Stimulus Control
Review Sleep Diary Data – "mismatch" Setting up Sleep Restriction and Stimulus Control
Setting up Sleep Restriction and Stimulus Control
Set Prescription (TIB & TOB)
Set Strategy
How to stay awake to the prescribed hour
What to do with WASO time

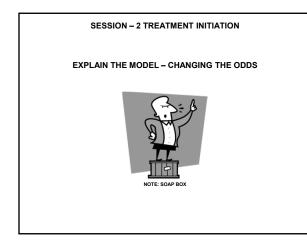


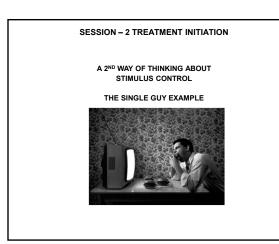


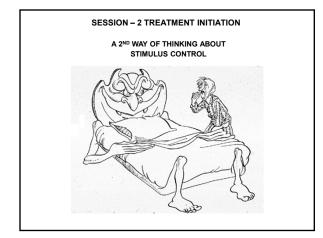












SESSION - 2 TREATMENT INITIATION

Tasks Tasks Summarize & Graph Sleep Diary Determine Treatment Plan Review Sleep Diary Data – "mismatch" Introduce Behavioral Model of Insomnia Set Prescription (TIB & TOB) Set Strategy How to stay awake to the prescribed hour What to do with WASO time





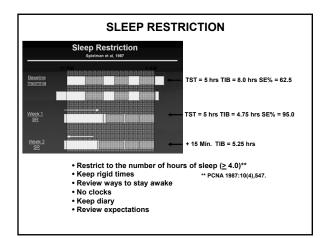
THE GOALS OF TREATMENT ARE TO

1. ALIGN SLEEP ABILITY WITH SLEEP OPPORTUNITY

2. MAKE A PLAN FOR HOW TO STAY AWAKE TO THE PTIB

3. MAKE A PLAN RE: WHAT TO DO DURING STC







Tasks Summatte & Graph Gleep Diary Determine Treatment Plan Reverse Steps Day Data Beeging up Step Restriction and Stemulus Control Statistics Statistics Betty Peterstriction and Stemulus Control

SESSION - 2 TREATMENT IN								
WHAT'S THE SRT PRESCRIPTION	IN THIS CASE ?							
REMEMBER THE FIRST QUESTION IS "WHAT TIME DO YOU NEED TO START YOUR DAY ?" (ASSUME 6:30AM AND ROUND TST LOW).								
	MEAN							
TIME TO BED (CLOCK TIME)	~ 11 PM							
TIME OUT OF BED (CLOCK TIME)	~ 6:30 AM							
(TIB) TOTAL TIME IN BED	437.1							
TIME TO BED (DEV FRM 11)	0.0							
TIME OUT OF BED (DEV FRM 7)	-25.7							
(SL) TIME TO FALL ASLEEP	45.0							
(NUMA) NUMBER TIMES AWAKENED	2.3							
(WASO) WAKE AFTER SLEEP ONSET	45.0							
(TTOB) TOTAL AMOUNT TIME OUT OF BED	0.0							
(TST) TOTAL SLEEP TIME (MIN.)	347.1							
(SE) SLEEP EFFICENCY	79.2							
SLEEP QUALITY (POOR 8-1-2-3-4-5 GOOD)	1.1							
FATIGUE (NONE 0-1-2-3-4-5 A LOT)	4.4							

SESSION – 2 TREATMENT INITIATION

Tasks Summarbe & Graph Steep Diary Determine Treatmert Plan Perkere Steep Diary Data -- resenatch* Introduce Behavioral Model of Insomnia Stetting up Steep Execticion and Stemulus Control Stet Prescription (18 & TCB)





ANYONE KNOW WHAT THIS IS CALLED MAKE A "TO DO LIST" PLAN HOW TO STAY UP PLAN HOW TO GET UP

EXPECT THINGS TO GET WORSE BEFORE THEY GET BETTER





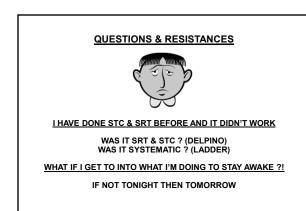
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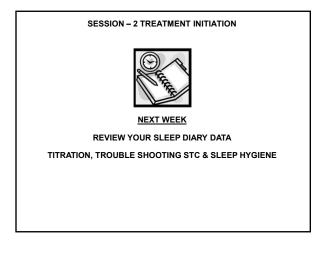


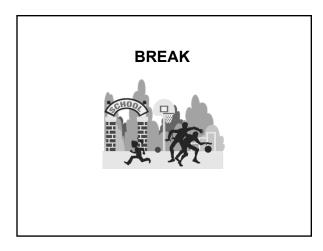
THINGS TO DO WHEN YOU ARE AWAKE

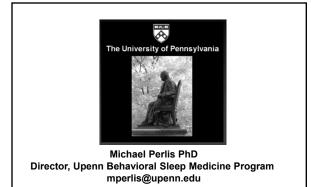
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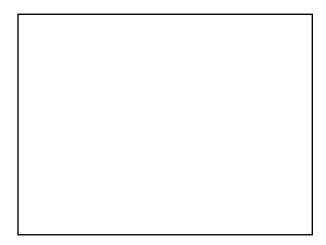


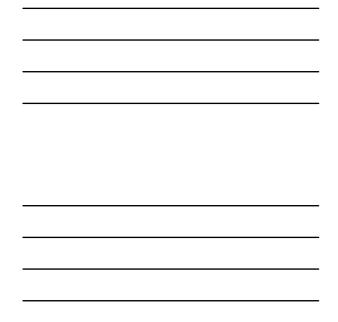


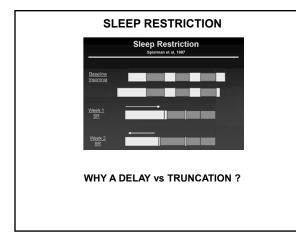


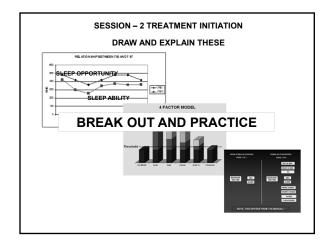




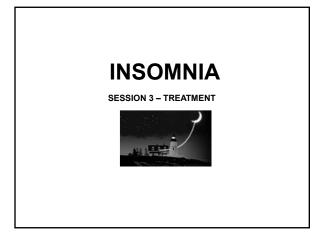








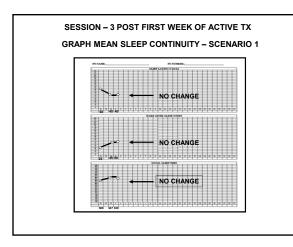








	3 POST FIRST WEEK OF ACTIVE	
	1 Marta	
A	ssess Treatment Gains and Compliance	
	etermine If Upward Titration is Warranted	
	evlew Sleep Hygiene	



NO CHANGE	1
GWEN COMPLAINS	

DID THE PATIENT SLEEP RESTRICT ?

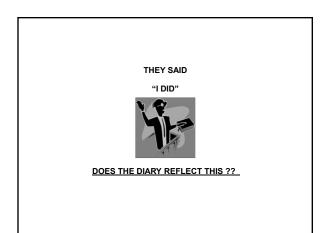
THEY SAID

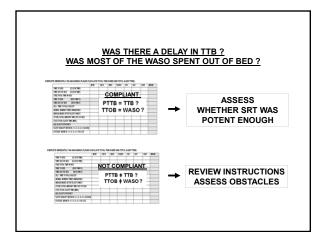
"I DID" " I WANTED TO BUT COULDN'T" "I DIDN'T WANT TO"

DID THE PATIENT PRACTICE STC ?

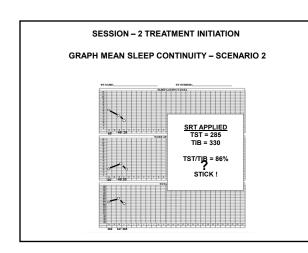
THEY SAID

"I DID" " I WANTED TO BUT COULDN'T" "I DIDN'T WANT TO"

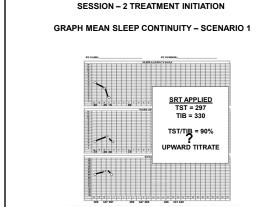


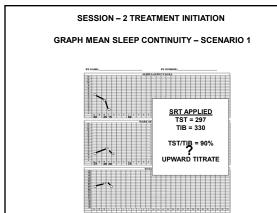


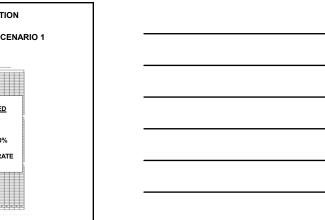


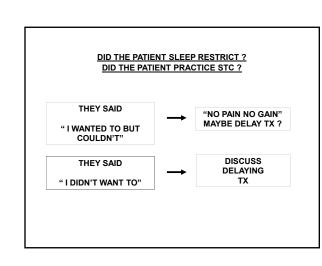




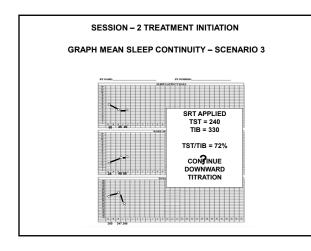




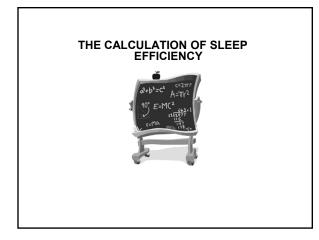


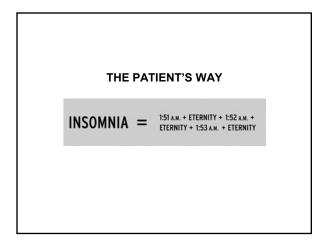


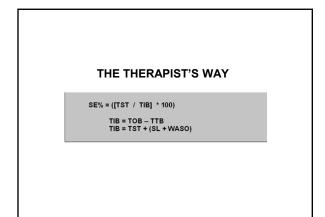


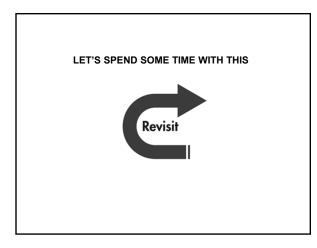
















For TIB whatever makes TIB bigger, provided the patient wanted/was trying to sleep.

in bed early: counts in bed late - due to schedule: doesn't count

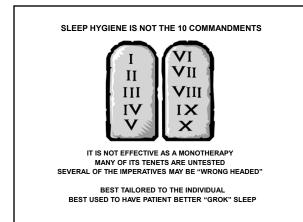
out of bed early - due to EMA: counts out of bed early - due to schedule: doesn't count

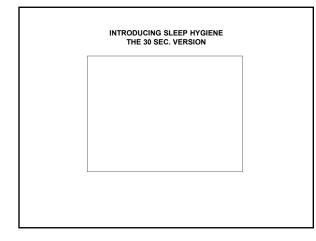
For TST whatever makes TST smaller

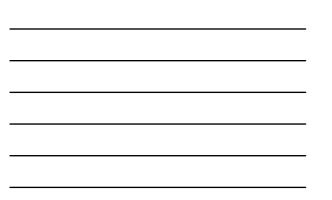
time awake out of bed: counts

SESSION – 3 POST FIRST WEEK OF ACTIVE TX

Tasks Summarize & Graph Sleep Diary Assess Treatment Gains and Compliance Determine if Upward Titration is Warranted

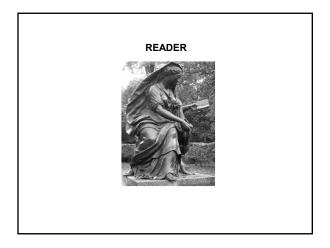






INTRODUCING SLEEP HYGIENE THE 5 MINUTE VERSION

SLEEP HYGIENE
1. Sleep only as much as you need to feel refreshed during the following day.
Instricting your time in bed helps to consolidate and deepen your sleep. Excessively king times in bed lead to tragmented hallow sleep. Get up at your regular time the next day, no matter how little you slept.
2. Get up at the same time each day, 7 days a week.
A regular wake time in the morning leads to regular times of sleep onset, and helps to set your "biological clock."
3. Exercise regularly.
Ichedule exercise times so that they do not occur within 3 hours of when you intend to go to bed. Exercise makes it easies state sleep and deepen sleep.
 Make sure your bedroom is comfortable and free from light and noise.
A controtable, noise-free sleep environment will reduce the likelihood that you will wake up during the night. Noise that does waken you may also disturb the quality of your sleep. Carpeting, insulated curtains, and closing the door may help.
5. Make sure that your bedroom is at a comfortable temperature during the night.
cossively warm or cold sleep environments may disturb sleep.
5. Eat regular meaks and do not go to bed hungry.
sunger may disturb sleep. A light snack at bedtime (especially carbohydrates) may help sleep, but avoid greasy or "heavy" food
7. Avoid excessive liquids in the evening.
feducing liquid intake will minimize the need for nightline trips to the bathroom.
. Cut down on all caffeine products.
Catheinsted beverages and foods (coffee, tea, cola, chocolate) can cause difficulty failing asleep, awakenings during the night, i halow sleep. Even catheine early in the day can disrupt rightSine sleep.
9. Avoid alcohol, especially in the evening.
Whough alcohol helps tense people fall asleep more easily, it causes awakenings later in the night.
0. Smoking may disturb sleep.
acotine is a stimulant. Try not to smoke during the night when you have trouble sleeping.
1. Don't take your problems to bed.
'an some time earlier in the evening for working on your problems or planning the next day's activities. Worrying may interf with initiating sleep and produce shallow sleep.
2. Do not try to fall asleep.
his only makes the problem worse, instead, turn on the light, issue the bedroom, and do something different like reading a bo- ion't engage in stimulating activity. Return to bed only when you are sleepy.
3. Put the clock under the bed or turn it so that you can't see it.
Sock watching may lead to frustration, anger, and worry which interfere with sleep.
Avoid naps. Staying awake during the day helps you to fail asleep at night.





SLEEP INVCEHE

1. Steep only se much as you need to feel refershed during the following day.
Restricting your line in bid helps to consider and depeny your linee. Excession lines in bid lead to they ensemble the during t



SLEEP INVOLENE
3. Exercise regularly.
Schedule exercise times so that they do not occur within 3 hours of when you intend to go to bed. Exercise makes it easier to
initialise steps and comen interp.

SESSION – 3 POST FIRST WEEK OF ACTIVE TX

SLEEP INVOENE
4 Make sure your bedroom is confortable and the from light and noise.
A contraduate, noise-tere sleep environment will ender be liaithood that you will wake up during the night. Noise that does not
markin your will adduate the quality of your sites. Creating, manuales durinari, and doargithe door may help.

SESSION - 3 POST FIRST WEEK OF ACTIVE TX

SLEEP HYGENE 5. Make sure that your bedroom is at a controltable temperature during the night. Excessively warm or cold sleep environments may disturb sleep.

SLEEP HYGENE 6. Eet regular meaks and do net go to bed hungy. Hunger may disturb steep. A kigit snock at bestime (especially carbohydrates) may help steep, but avoid greesy or "heavy" foods.

SESSION – 3 POST FIRST WEEK OF ACTIVE TX

SLEEP HYGENE
7. Avoid excessive liquids in the evening.
Reducing liquid intake will minimize the need for nightlime trips to the bathroom.

SESSION – 3 POST FIRST WEEK OF ACTIVE TX

SLEP W/GENE 8. Cut down on all caffeine products. Caffeinted bererages and foots (colles, les, cola, chocolet) can cause difficulty falling salesp, evalenings during the hight, and disolarities (bere mark) that bay can diarupt highting leses.

A BIT OF HUMOR BEFORE DEBUNKING

SLEEP HYGEHE
9. Avoid alcohol, especially in the evening.
Although alcohol helps tense people tail asteep more easily, it causes awakenings later in the night.

SESSION – 3 POST FIRST WEEK OF ACTIVE TX

SLEEP HYGIENE

SLEEP HYGENE 10. Smoking may disturb skep. Nicctine is a stimulant. Try not to smoke during the night when you have trouble sleeping.

SESSION – 3 POST FIRST WEEK OF ACTIVE TX

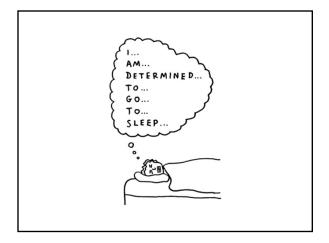
SLEEP INVOLENE 11. Dan't take your problems to bed. Plan some time earlier in the evening for working on your problems or planning the next day's activities. Worrying may interfere with fraking sides and produce trakeour sitesp.





SESSION – 3 POST FIRST WEEK OF ACTIVE TX SLEEP MYGENE 12. Do not try to fail winnep.

SLEEP INFOLINE
12. Do not try to fail anleep.
This only makes the problem worse. Instead, turn on the light, leave the bedroom, and do something different like reading a book.
Don't engage in stimulating activity. Return to bed only when you are sleepy.







"Sleep (is like) a dove which has landed near one's hand and stays there as long as one does not pay any attention to it; if one attempts to grab it, it quickly flies away"

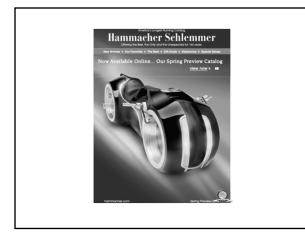
Viktor E. Frankl (1965, p. 253) cited in Ansfield et al. Behav.Res.Ther. 1996;34:523-531

SLIDE PROVIDED BY COLIN ESPIE

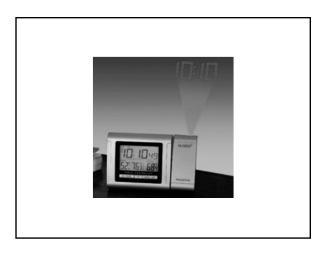
SESSION - 3 POST FIRST WEEK OF ACTIVE TX

SLEEP HYGIENE
13. Put the clock under the bed or turn it so that you can't see it.
Clock watching may lead to frustration, anger, and worry which itterfere with sleep.

I CAN'T RESIST SOME EXAMPLES HERE







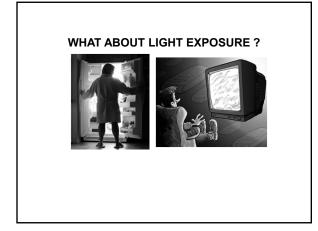


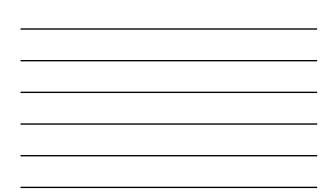


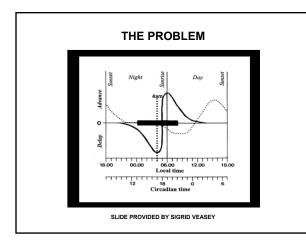


SESSION – 3 POST FIRST WEEK OF ACTIVE	тх
SLEEP HYGIENE	
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SLEEP HYGERE
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2. Get up at the same time each day, 7 days a week.
A regular wake time in the morning leads to regular times of sleep onset, and helps to set your "biological clock."
3. Exercise regularly.
Schedule exercise times to that they do not occur within 3 hours of when you intend to go to bed. Exercise makes it easier to initiate sleep and deepen sleep.
4. Make sure your bedroom is comfortable and free from light and noise.
INTERESTING – NO WHERE IS THERE A MENTION OF NIGHT TIME LIGHT EXPOSURE
THERE A MENTION OF NIGHT TIME LIGHT EXPOSURE
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THERE A MENTION OF NIGHT TIME LIGHT EXPOSURE
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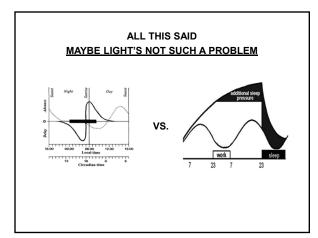












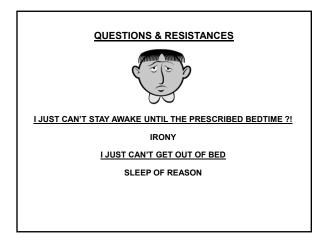


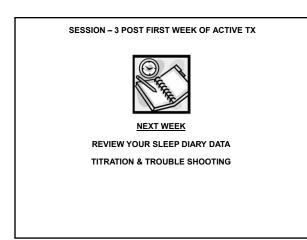


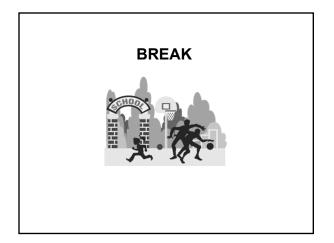


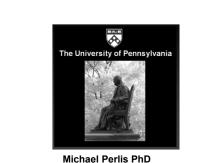
A SOLUTION



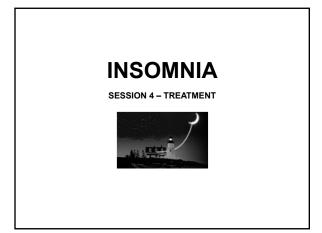




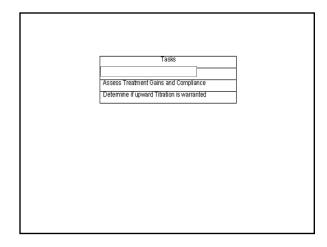


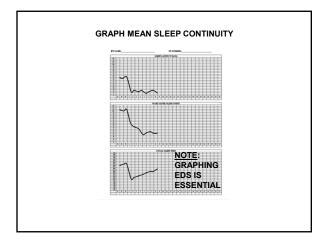


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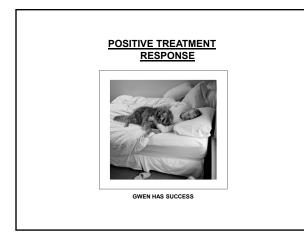


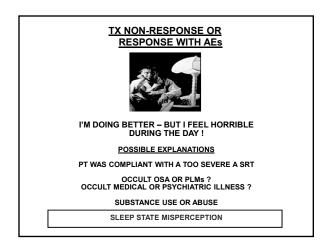










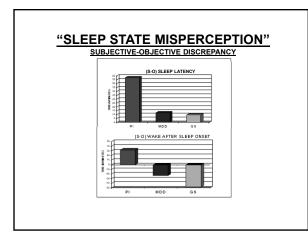


SLEEP STATE MISPERCEPTION <u>AKA</u> PARADOXICAL INSOMNIA

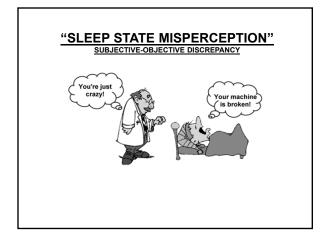
WHAT IS THIS ?!

AND

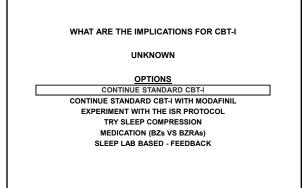
WHAT ARE THE IMPLICATIONS FOR CBT-I ?!

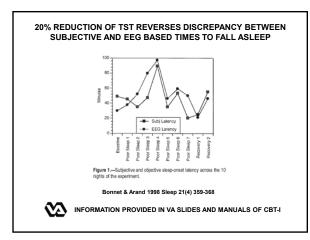




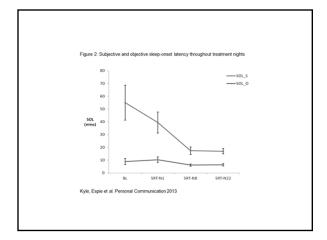




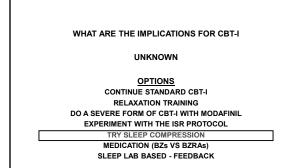


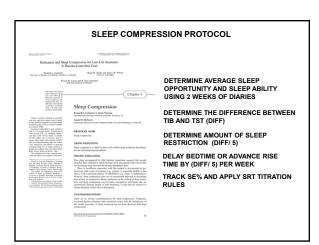


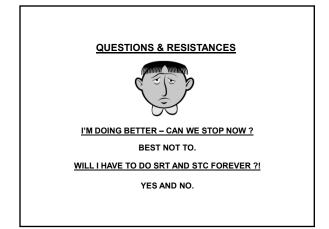




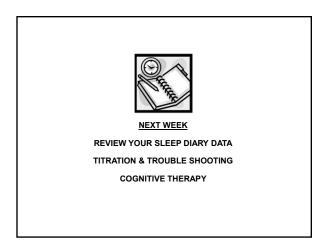


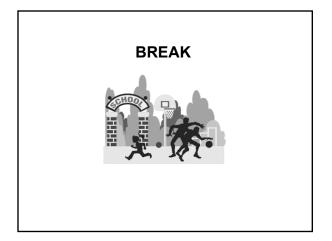


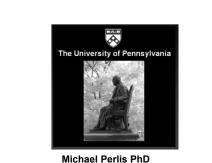




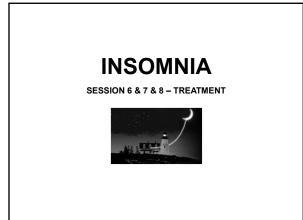


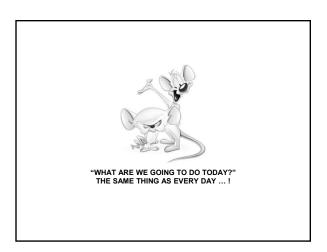




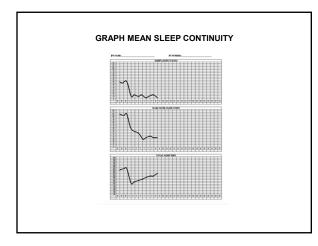


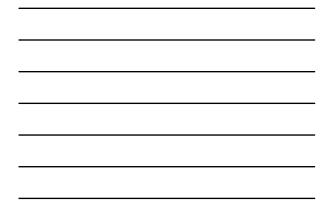
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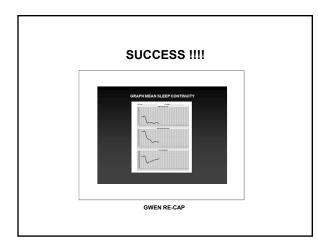


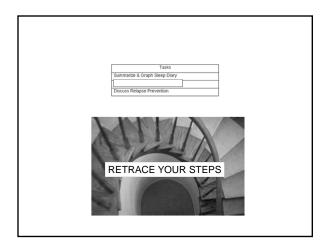


	Tasks	
	ssess Treatment Gains (Globally)	
C	Discuss Relapse Prevention	

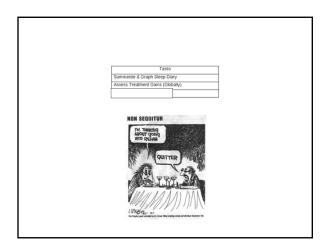






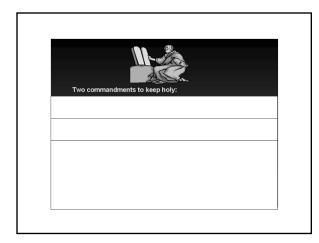








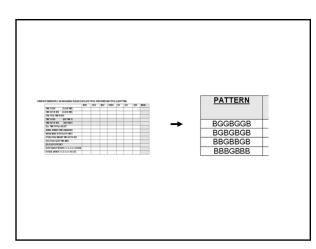


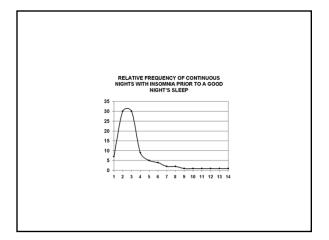


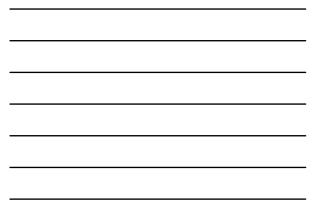
"IF NOT TONIGHT THEN TOMOROW NIGHT" !?

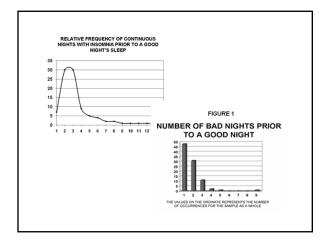
IS IT THE CASE THAT PATIENTS WITH INSOMNIA EXPERIENCE GOOD SLEEP ON SOME REGULAR BASIS ?

IF YES, THEN WHY AND ON WHAT SCHEDULE ?



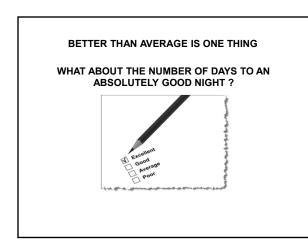


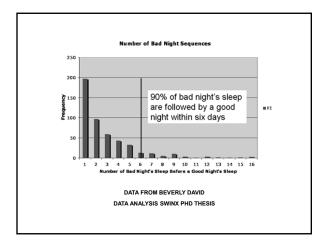




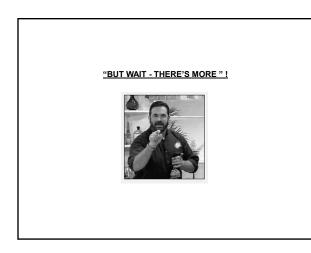








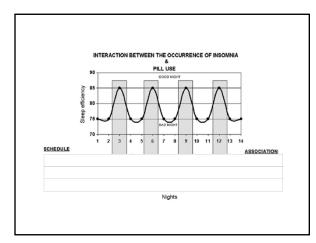




IF BETTER THAN AVERAGE SLEEP OCCURS AND DOES SO EVERY ~3 DAYS THEN WHAT EFFECT WOULD THIS HAVE ON RITUAL BEHAVIORS

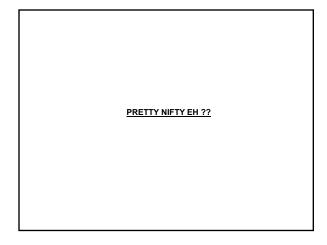
AND

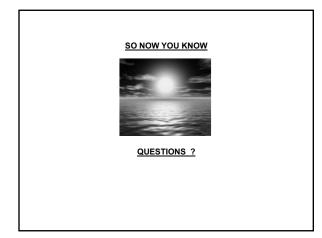
USE OF PLACEBO !









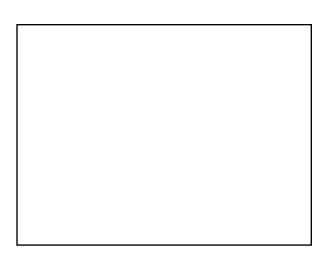




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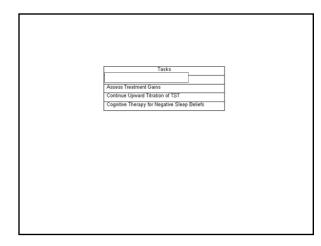


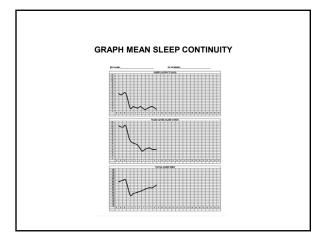






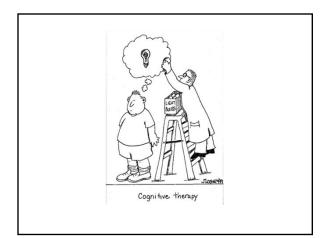




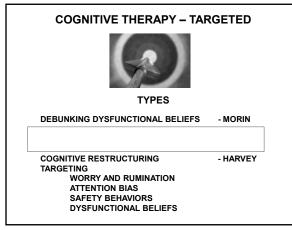


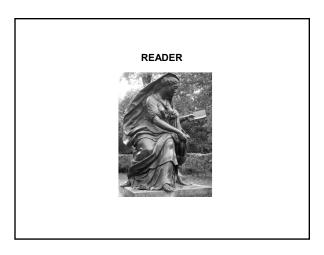


Tasks	
Summarize & Graph Sleep Diary	
Assess Treatment Gains	
Continue Upward Titration of TST	









SESSION – 5



Cognitive Therapy for Negative Sleep Beliefs: A countering strategy for probability overestimates Cognitive restructuring is a core form of therapy for CBT for depression and anxiety and panic disorders. Some years ago we recommended that this form of therapy could be applied to the treatment of sleeprelated worry. While there are no efficacy or effectiveness studies on this specific approach as a monotherapy, there are effectiveness data related to its use as part of a comprehensive package. Moreover, its effectiveness in the related disorders and its clear clinical utility in the treatment of insomnia, suggest that this is an important component to include in CBT-1.



Cognitive restructuring for insomnia focuses upon catastrophic thinking and the belief that poor sleep is <u>likely</u> to have devastating consequences. While psychoeducation may also address these kinds of issues, another ingredient of cognitive restructuring lies not in disabusing the patient of erroneous beliefs, but rather in having them discover that their estimates are not necessarily factual. When undertaking this exercise with a patient, it needs to be introduced in a considerate way, one that avoids any hint that the therapist is being pedantic, patronizing, or condescending.

SESSION - 5

There are 9-10 steps to the process

- 1. Set the stage for the exercise (cognitive restructuring)
- 2. Calculate how long the patient has had insomnia (round back)
- 3. Identify and record 3-10 sleep related worries (pull for the catastrophe)
- 4. Assess probability estimates (round back)
- 5. Determine actual frequencies
- 6. Determine forecasted frequency (certainty x opportunity)
- 7. Identify mismatch between the patient's estimates & actual occurrence rate $% \left({{{\mathbf{x}}_{i}}} \right)$
- 8. Talk about "why is it that such probabilities seem so real at the time" $\ref{eq:seem}$
- 9. Recommend a countering Mantra ("not likely")
- 10. (Optional) calculate probability based on occurrence

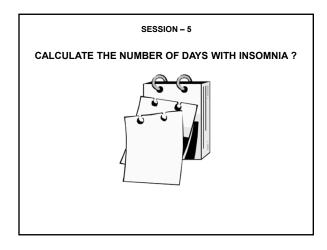


SET THE STAGE



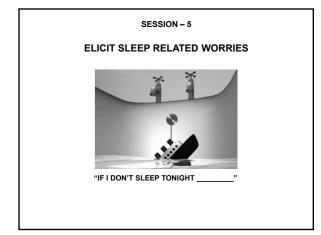
JUST AN EXERCISE DEGREE OF FIT TO THE PATIENT

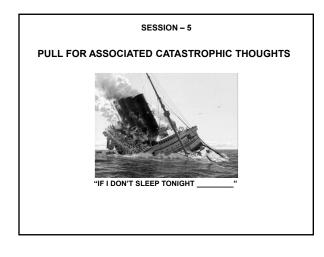
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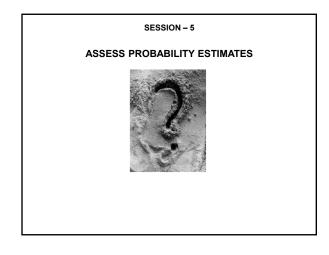


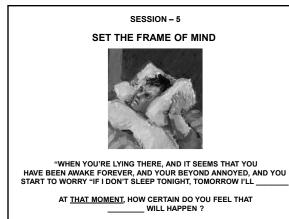


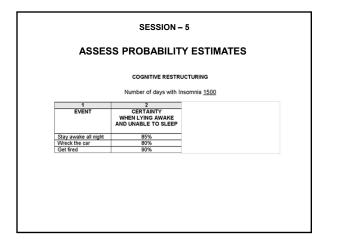
IDENTIFY AND RECORD CATASTROPHIC THOUGHTS

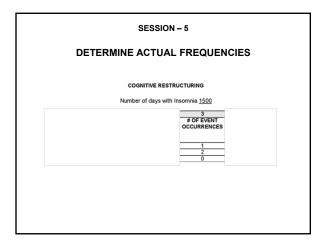
Worry Associated Catastrophic Thought		Associated Catastrophic Thought	
,			
			_
			_
			_

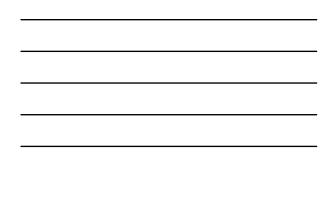
	SESSION – 5
	3E33ION = 5
COMM	ON WORRIES AND CATASTROPHIC THOUGHTS
If I don't get good sleep toni Worry	Associated Catastrophic Thought
	1

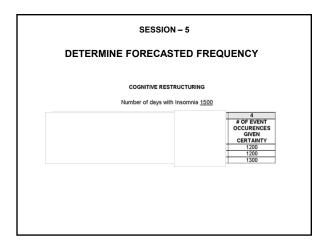


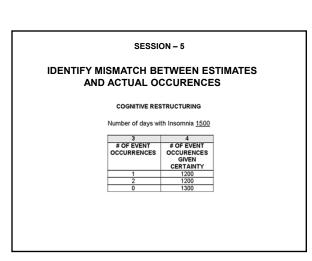










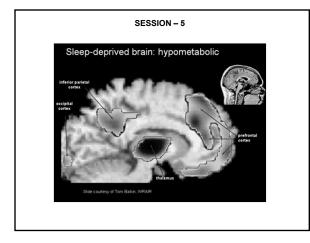


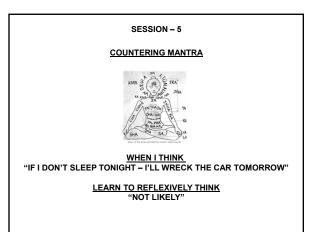


TALK ABOUT "WHY IS IT THAT SUCH PROBABILITIES SEEM SO REAL AT THE TIME" ?!

HOW CAN THERE BE SUCH A DISPARITY BETWEEN ONE'S CERTAINTY AT NIGHT AND THE REAL LIFE PROBABILITIES ?!

IT'S A BAD THING TO BE AWAKE WHEN REASON SLEEPS





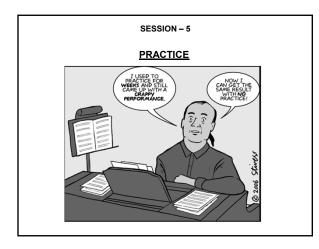
SESSION – 5

There are essentially 8 steps to the process.

Setting the stage for Cognitive Restructuring
 Catacularing how long the patient has had their insomnia (in days)
 Sterify and recof between 3-10 catastrophic housing is
 Assess the Patient's Probability Estimates
 S. Determine the actual frequency of coursence of the anticipated "catastrophes"
 S. Determine the actual frequency of coursence of the anticipated "catastrophes"
 Foreits a "Courtering Martin to the Catastrophic Touchability Catastrophic Outcome
 T. Create a "Courtering Martin to the Catastrophic Touchability

	COMMON WORRIES AND CATASTROPH	IC THOUGHTS					
food and much	alwap tanight than		_				
wry		Catastrophic Throught					
			_				
	_						
	C048	ION WORRIES AND C	ATASTRO	PHIC THOUGHTS	-		
	If I don't get good sleep ton	ight then			-		
	Wierry			ed Catastrophic Thought		NK-1	
	I'll be initable and short with r			il leave or divorce me		11/-1	
	The initiable and short with r	ny kida		il hate me – never speak to me again			
	I want socialize well	I loose my				NK-2	
	TI do poorly at work						
	I make a motake at work						
	Til get fired			ared financially			
	Till feel poorty	/Ti get sid					
	Till get sick	(1 de			-		
	TEloose my mind		The go or an	y - have a nervous breakdown	_		
	I won't fail asleep			ke the whole night	_		
	11 fall sleep behind the wheel	(or space oul)	(1) total my		COGNITIVE RESTRI	ICTURING	
	I'll have an accident			ny car and kill myself or someone else			
	Thick old and unattractive		People with	i turn away from me in disgust.	Number of days with In	somnia 1500	
				1 EVENT	2 CERTAINTY	3 # OF EVENT	4 # OF EVENT
					WHEN LYING AWAKE AND UNABLE TO SLEEP	OCCURRENCES	GIVEN CERTAINTY
				Stay awake all night	85%	1	1200
				Wreck the car	80%	2	1200
				Get fired	90%	0	1300



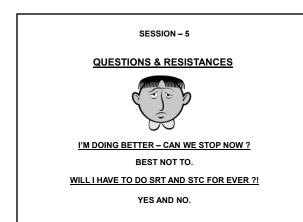


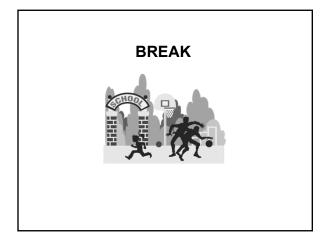


PRACTICE

There are 9-10 steps to the process

- 1. Set the stage for the exercise (cognitive restructuring)
- 2. Calculate how long the patient has had insomnia (round back)
- 3. Identify and record 3-10 catastrophic thoughts (pull for the catastrophe
- 4. Assess probability estimates (round back)
- 5. Determine actual frequencies
- 6. Determine forecasted frequency (certainty x opportunity)
- 7. Identify mismatch between the patient's estimates & actual occurrence rate
- 8. Talk about "why is it that such probabilities seem so real at the time" $\ref{eq:seems}$
- 9. Recommend a countering Mantra ("not likely")
- 10. (Optional) calculate probability based on occurrence





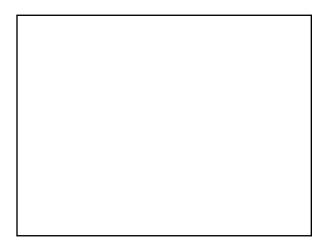


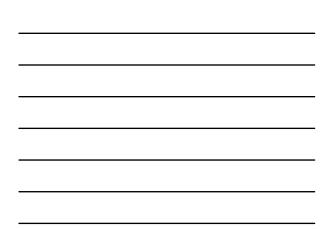


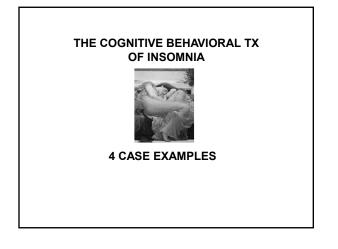
Michael Perlis PhD Director, Upenn Behavioral Sleep Medicine Program mperlis@upenn.edu

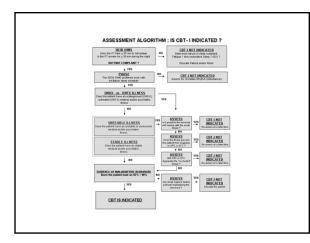
SESSION – 5						
	COGNITIVE RESTRUCTURING					
		Number of days with li	nsomnia <u>1500</u>			
	1	2	3	4		
	EVENT	CERTAINTY WHEN LYING AWAKE AND UNABLE TO SLEEP	# OF EVENT OCCURRENCES	# OF EVENT OCCURENCES GIVEN CERTAINTY		
	Stay awake all night	85%	1	1200		
	Wreck the car	80%	2	1200		
	Get fired	207%	0	1300		
CALCULATE PROBABILITY BASED ON OCCURRENCE						
STAY AWAKE ALL NIGHT 1/1200 = 0.08%						
•	•					
WRECK MY CAR			- 2	2/1200	= 0.16%	
GET FIRED		(0/1200	= 0.0%		



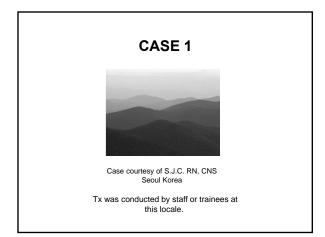












INITIAL PRESENTATION

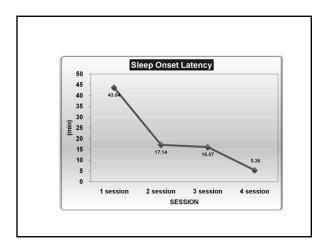
- <u>68 year old Female</u>
 Married/ lives with her husband
 Three daughters are all married
- Onset of insomnia: 6 yrs ago
- 2yrs ago: Dx & Tx GERD→ somewhat improved
- Increased fluid intake during night time (3-5cups/night)
 She thought it helpful for GERD → Nocturnal frequency
 - Variable from 10-11pm
- TTB TOB = SL = WASO =
 - 6am 43 minutes
- WASO TST = 55 minutes 55 minutes 6.27 (~6 hrs. 15 min) ~8.0 hours 78%
- TIB = SE =

MEDICATION & TX STATUS

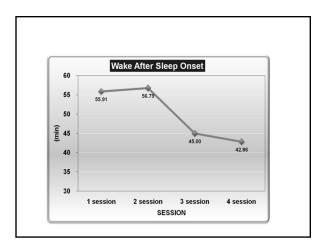
- Medications for Insomnia
 - alprazolam 0.25mg 1~1.5T hrs
 - triazolam 1T hrs
 - frequency: 1/week
- · Medication for GERD - PPI (rabeprazole 10mg qd)
- Medication for menopause - Intermittent hormonal replacement IV form

TREATMENT

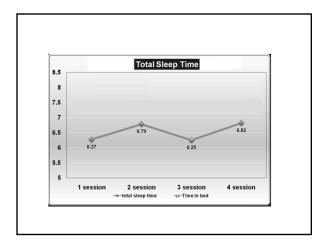
- 1st session
 - Introduction of CBT-I
 - Hx, sleep pattern
- 2nd session
 - Education about sleep/wake regulation
 Behavioral/Relaxation Tx
- 3rd session
- Cognitive Tx
 - Medication tapering
- 4th session
 - Review progress & wrap up



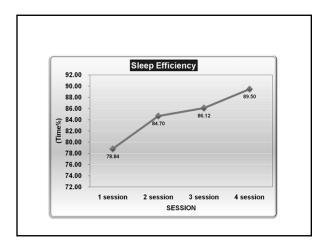




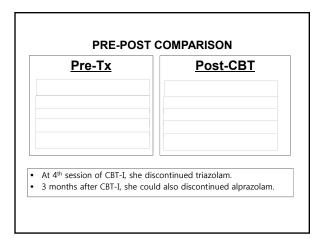




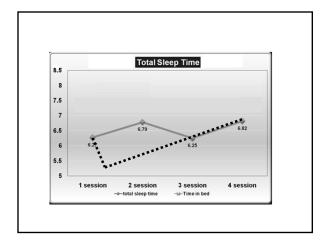




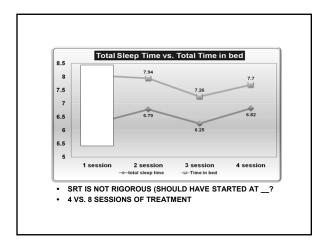




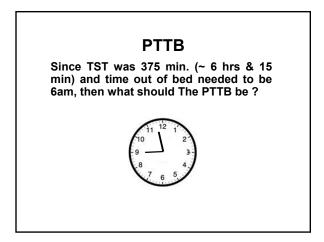


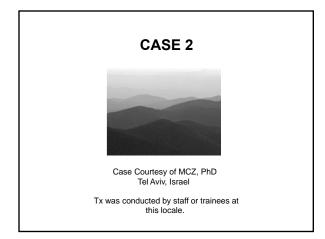












	INITIAL PRESENTATION
 Childr Emplo Onset of I 	2 emale I Status: Married (15 years) en: 3 (ages 5,10, 13) yed full-time/avid karate athlete <u>nsomnia</u> :
	s ago, thyroid cancer (in remission) rbation 2.5 months ago, work-related stress
 TTB TOB = SL = WASO = TST = SE = 	12pm 730am 60 minutes 32 minutes 6.0 60%

MEDICATION & TREATMENT STATUS

- Stilnox (Zolpidem; 5mg), 2-3x/week
- Eltroxine (thyroid replacement)
- Wyethia (homeopathic remedy)
- Carcinocin (homeopathic remedy)

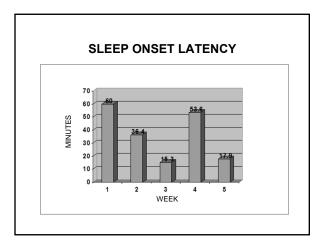
TREATMENT ??

Assessment and baseline (1-2 weeks)

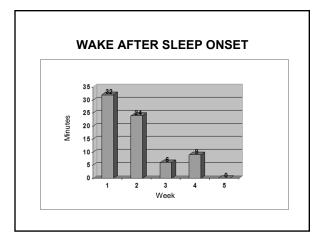
Explanation of Spielman & Stimulus Control Concepts
 Initiation of SRT (by average TIB) and STC

BEST GUESS WAS D/C SLEEP MEDICATION AND RESTRICT SLEEP PERIOD BY 1 HOUR 1

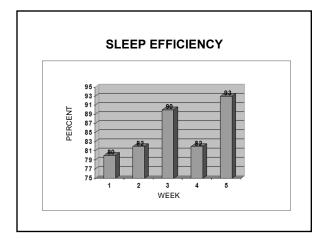
- Titration & Cognitive Therapy (decatastrophization)
- Titration (Sessions 6 & 7)
- Relapse Prevention



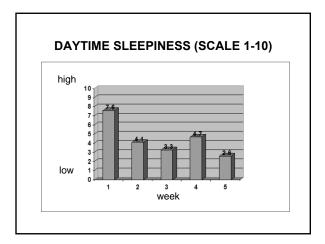




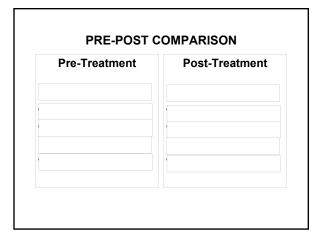




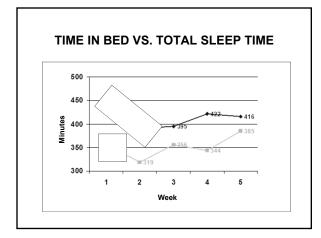




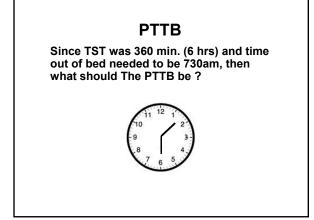


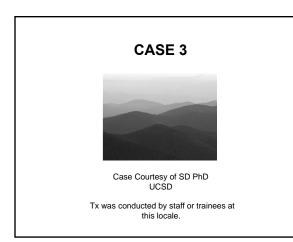












INITIAL PRESENTATION

- 35 year old Hispanic male Navy veteran
 Married with a 6 year old son
 Difficulty initiating and maintaining sleep
- Onset: after doing shift work
 exacerbated from back injuries
- Med Dx: Degenerative arthritis of the spine, back injuries treated with surgery (spinal fusion)
 Meds: Pregabalin, Tramadol, Fluoxetine, Prilosec.
- TTB TOB = SL = WASO = TST = SE =

- ~11pm ~6am 41 minutes 57 minutes 319 (5.31 hrs) 76%

Precipitating factors

- Shift work in the Navy
- Pain (back injury and subsequent surgeries)
- Living with
- Perpetuating factors
 - Attempting to sleep before sufficiently tired
 - Other healthcare providers advised patient to "try
 - harder" to fall asleep if unable at night
 - Attempted naps
- Evidence of conditioned hyperarousal
 - Reports of feeling "very tired" while watching TV in his living room at night, followed by immediate alertness/feeling awake when patient lies down in bed

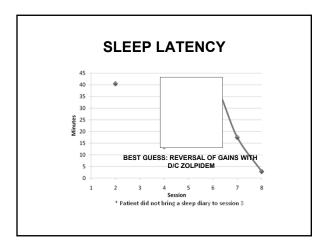
TREATMENT

- Individual Therapy Therapist 3rd Year Grad Student
- · Assessment and baseline (1-2 weeks)
- Explanation of Spielman & Stimulus Control Concepts Initiation of <u>SRT</u> (by average TST) and <u>STC</u> (initiate when aware of being awake or annoyed [not by time elapsed])
- Titration (15 min based on 80/85/90 rules) & Sleep Hygiene Review
- Cat Noise a focus
- D/C Zolpidem during Tx

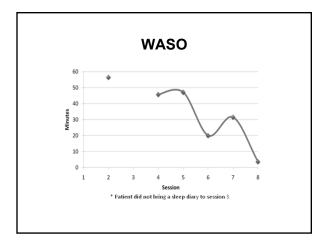
PTTB

TST was 319 min. (call it 315 min) and time out of bed needed to be 6am, then what was the PTTB ?

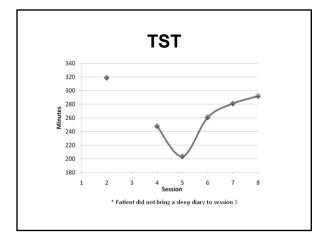




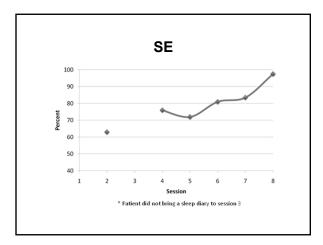








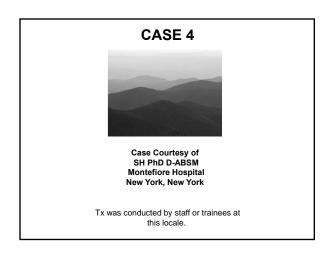






	Pre-Tx	Post-Tx
SL		
NOA		
WASO		
TST		
SE		
ISI		
PSQI		





INITIAL PRESENTATION

- · Female 82 years Old
- Windowed
- 5th Grade Education
- Non-English Speaker
- Med Dx: Arthritis, Hypothyroidism, Hypertension, moderate OSA (compliant with CPAP).
- Meds: Synthroid, Amlodipine, and Lisinopril
- Assessment showed mild depression (BDI=14)

INITIAL PRESENTATION (CONT'D)

٠	TTB =	8pm
٠	TOB =	8am
٠	SL =	240 m

- 240 minutes 60 minutes • WASO =
- TST = SE = 390 (6.5 hrs) 54%

Patient very lonely, spent most of day and evening in bed watching TV

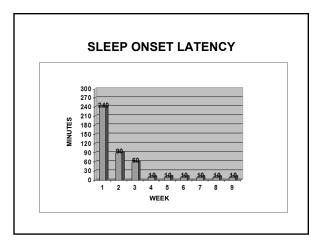
PTTB

Since TST was 390 min. (6.5 hrs.) and time out of bed needed to be 8am, what should have the PTTB been ?

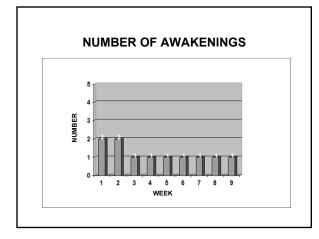


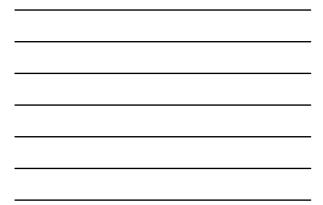
TREATMENT PLAN

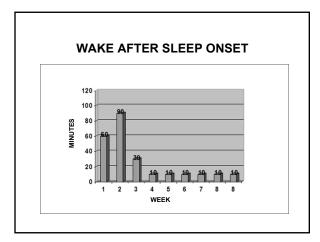
- Two week prospective assessment
- SRT + SCT (Titration rule 80% / 85%)
- Patient resistant to Phase Delay of TTB switched to Sleep Compression (delay over 2 weeks [not sure how this was done])
- Made a plan for Time Awake (photo albums and scrap book)



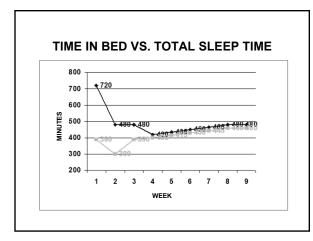




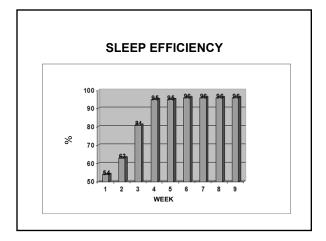




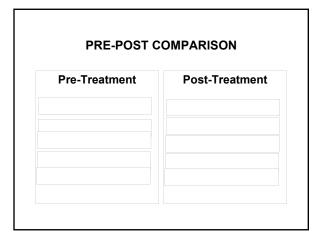


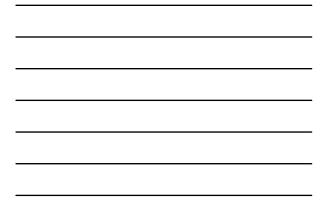




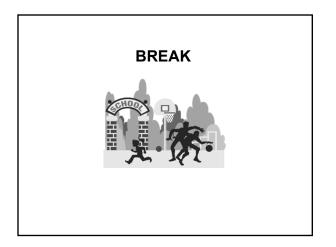


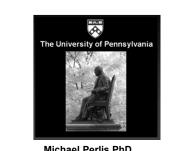




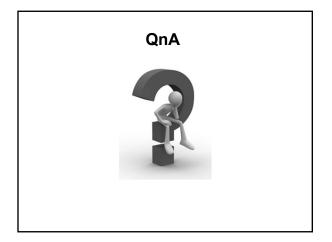




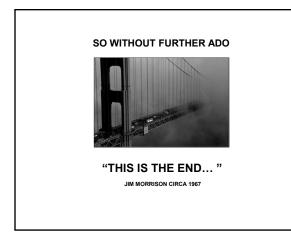


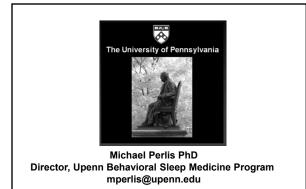


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FAQS AND REFERENCES

<u>1. How Efficacious is CBT-I (i.e., what's the clinical trial data)? - Very.</u>

Morin C.M., et al. (1994) Non-pharmacological interventions for insomnia: a meta-analysis of treatment efficacy. Am. J. Psychiatry 151, 1172-1180.

Murtagh D et al. (1995) Identifying Effective Psychological Treatments for Insomnia - A Meta-analysis. JCCP, 63, 79-89.

2. How Effective is CBT-I (i.e., is there case series data in "real" patients)? - Very.

Lichstein K.L. et al.(2000) Psychological treatment of secondary insomnia. Psychology of Aging 2, 232-240.

Perlis M., et al.(2000) Behavioral treatment of insomnia: A clinical case series study. J. Behav. Med. 23, 149-161.

3. How does CBT-I compare to Pharmacotherapy? – The therapies are comparable.

Morin C.M., et al. (1999) Behavioral and pharmacological therapies for late-life insomnia: a randomized controlled trial JAMA 281, 991-999.

Smith M.T., et al.(2002) Behavioral treatment vs pharmacotherapy for insomnia - a comparative meta-analysis. Am. J. Psychiatry 159, 5-11.

Jacobs G.D. et al. (2004) Cognitive behavior therapy and pharmacotherapy for insomnia - A randomized controlled trial and direct comparison. Arch. Intern. Med. 164, 1888-1896.

Sivertsen B., et al. (2006) Cognitive behavioral therapy vs zopiclone for treatment of chronic primary insomnia in older adults - A randomized controlled trial. Journal of the American Medical Association 295, 2851-2858.

4. Does the NIH have a position on what's the best for the treatment of insomnia ? – Yup.

http://consensus.nih.gov/2005/2005InsomniaSOS026html.htm This is available on web cast. http://videocast.nih.gov/PastEvents.asp?c=1&s=81

5. Does the AASM have a position on what's the best for the treatment of insomnia? - Yup.

Chesson A.L., et al. (1999) Practice parameters for the non-pharmacologic treatment of chronic insomnia. An American Academy of Sleep Medicine report. Standards of Practice Committee of the American Academy of Sleep Medicine Sleep. 22, 1128-1133.

Chesson A., et al. (2000) Practice parameters for the evaluation of chronic insomnia. An American Academy of Sleep Medicine report. Standards of Practice Committee of the American Academy of Sleep Medicine Sleep. 23, 237-241.

Morgenthaler T. et al. (2006) Practice parameters for the psychological and behavioral treatment of insomnia: An update. An American Academy of Sleep Medicine Report. Sleep. 29, 1415-1419.

Morin C.M., et al. (2006) Psychological and behavioral treatment of insomnia: Update of the recent evidence (1998-2004). Sleep. 29, 1398-1414.

6. How does one know who is an appropriate candidate for CBT-I ?. See for example,

Smith M.T. et al. (2006) Who is a candidate for cognitive-behavioral therapy for insomnia? Health Psychol. 25, 15-19.

7. Are there books me and mine can read on how to do CBT-I. - Yup.

Insomnia: A Clinician's Guide to Assessment and Treatment Eds. Morin & Espie. Plenum Pub Corp. 2000 Cognitive Therapy for Insomnia: A session by session guide. Perlis, Jungquist, Smith & Perlis, Springer-Verlag. 2005. Overcoming Insomnia: A Cognitive-Behavioral Therapy Approach Therapist Guide, Edinger & Carney 2008.

8. Are there training courses available on CBT-I? - Yup.

General: <u>www.aasmnet.org/SleepEdSeries.aspx</u> Specific: <u>www.med.upenn.edu/cbti/</u>.

9. Is it possible to arrange for peer supervision for one's first CBT-I cases. Yup.

It is likely that any of the individuals with the CBSM would be willing. See, <u>http://www.aasmnet.org/BSMSpecialists.aspx</u>

<u>10. Is it possible to be credentialed in CBT-I. Yup.</u> There is a certification exam. See, <u>http://www.aasmnet.org/BSMExam.aspx</u>

11. How does reimbursement work for CBT-I. Ask:

Ryan Wetzler PhD→rwetzler@kysleepmed.comSara Matteson PhD→Sara_Matteson@URMC.Rochester.edu

Posner-Perlis Book Suggestions

[1] Perlis, M.L., and Lichstein, K.L. (Eds.) (2003), <u>Treating Sleep Disorders:</u> Principles and Practice of Behavioral Sleep <u>Medicine</u>. Hoboken, NJ: John Wiley and Sons Inc.

[2] C.M. Morin, C.A. Espie, (2003). Insomnia: A Clinician's Guide to Assessment and Treatment, Springer, Philadelphia, PA.

[3] Perlis, M.L., Jungquist, C.R., Smith, M.T., & Posner, D.A. (2005) <u>Cognitive Behavioral Treatment of Insomnia: A</u> <u>Session-by-Session Guide</u>. Springer/Verlag. New York.

[4] J. Edinger, C.E. Carney. (2008). <u>Overcoming Insomnia: A Cognitive-Behavioral Therapy Approach</u> Therapist Guide, Oxford University Press, New York, NY

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[8] Morin C. and Espie C. (2012). <u>The Oxford Handbook of Sleep and Sleep Disorders</u> (Oxford Library of Psychology). Oxford University Press. London.

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[8] C.S. McCrae, K.L. Lichstein, Secondary insomnia: diagnostic challenges and intervention opportunities, Sleep Med. Rev. 5 (2001) 47–61.

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[33] A.G. Harvey, N.K.J. Tang, Cognitive behaviour therapy for insomnia: Can we rest yet? Sleep. Med. Rev. 7 (2003) 237–262.

Society and/or TXs

AASM SBSM BSM CBT CBT-I SRT SCT CPAP PMR MBTI MBSR CT ISR PI	American Academy of Sleep Medicine Society of Behavioral Sleep Medicine Behavioral Sleep Medicine Cognitive Behavioral Treatment Cognitive Behavioral Treatment of Insomnia Sleep Restriction Therapy Stimulus Control Therapy Continuous positive airway pressure Progressive Muscle Relaxation Mindfulness-Based Therapy for Insomnia Mindfulness-Based Stress Reduction Program Cognitive Therapy Intensive Sleep Retraining Paradoxical Intention
	, 5
EBT	evidence-based psychological treatments
	enacine basea psychological incutinents

Instruments and Classification Systems

STQ	sleep timing questionnaire
ISI	Insomnia Severity Index
SHI	Sleep Hygiene Index
DBAS	Dysfunctional beliefs and attitudes about sleep
GSES	Glasgow Sleep Effort Scale
SAMI	Sleep Associated Monitoring Index
BZRA	Benzodiazepine Receptor Agonist
ICSD-2	International Classification of Sleep Disorders, 2 nd edition
DBAS	Dysfunctional Beliefs about Sleep Scale
SRBQ	Sleep-Related Behaviours Questionnaire
BBTI	Brief Behavioral Treatment of Insomnia
PSQI	Pittsburgh Sleep Quality Index
SSS	Stanford Sleepiness Scale

Sleep and CBT-I related Acronyms

SL	Sleep Latency
WASO	Wake after sleep onset
NWAK	Number of awakenings
TST	Total Sleep Time
SE	Sleep Efficiency
TTB	Time to Bed
TOB	Time out of bed
TIB	Time in Bed
TTOB	Total Time Out of Bed (during the night)
EEG	electroencephalography
SOL	Sleep Onset Latency
T _{min}	core body temperature rhythm minimum
Medical and Psycholog	<u>gy Acronyms</u>

Tx	Treatment
Rx	Medication

WORDS OF WISDOM VERSION 2

Perlisisms (MP)

- Can't stay awake ?...you're cured !
- Remember the clippers
- Look for the check mark
- The price of therapy is sleep diaries The price of supervision is graphs
- Align sleep opportunity with sleep ability
- When in treatment, expect things to get worse before they get better
- Sleep hygiene is not the ten commandments
- Nothing is certain in this world but death, taxes, and stimulus control
- In the beginning you're a therapist by the end you're a personal trainer
- Doing CBT-I is like dieting, it seldom works when attempted alone
- If insomnia returns, restrict and control (This is really Mark Aloia)
- Never give insomnia a function (e.g., use it as an alarm clock)
- What is insomnia but the gift of more time
- It's a bad thing to be awake when reason sleeps
- If not tonight, then tomorrow night, if not then, then almost certainly the next night
- As the therapist you need to send a message and the message is: "you are in the right place with the right person".

Posnerisms (DP)

- Insomnia develops a life of it's own
- First sleep efficiency then focus on how you feel
- Sleep drive is like silly putty...roll together and then kneed out
- Sleep will come get you when it's ready...that may not be tonight
- This torture is not a lifetime sentence
- You can under sleep your sleep drive forever but you can't oversleep your drive forever
- If you go into the dark tunnel go all the way through to the light and don't turn back. If you think you won't then don't start
- Engaging in poor sleep hygiene is like adding rungs to a ladder of vulnerability
- Tonight is sacrificed... don't ever fear adding to your sleep bank
- Never spend banked sleep except between bed and wake time
- Expansion is never smooth.. it's two steps up one step back
- If you are sitting there 3am awake and wanting to kill me, everything is going beautifully
- Your bedroom should be dark enough for me to develop film
- Just b/c you can't feel something affecting your sleep doesn't mean it isn't