

# **Managing Sleep Challenges after Transplant**

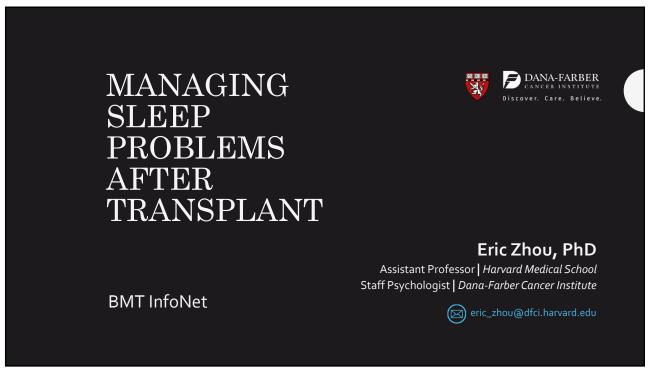
Celebrating a Second Chance at Life Survivorship Symposium

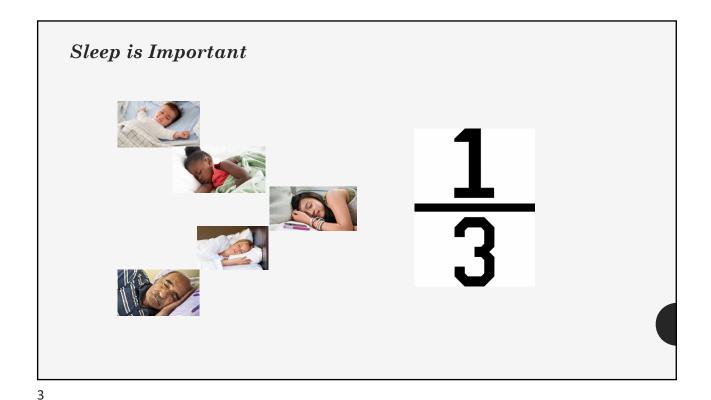
April 17-23, 2021



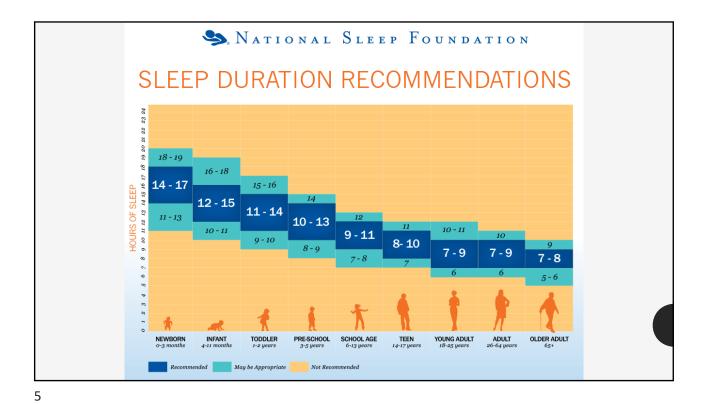
**Eric Zhou PhD**Dana-Farber Cancer Institute

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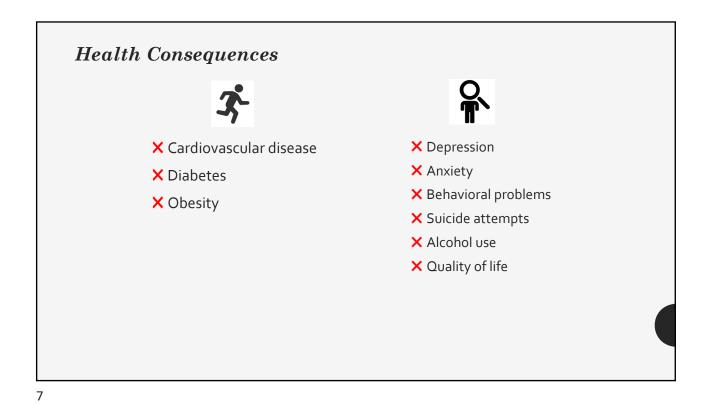


HOW MANY HOURS OF SLEEP DO ADULTS NEED PER NIGHT?



What is Good Sleep?

Quantity Timing
Sleep Quality
Continuity



Reacter's

Digest

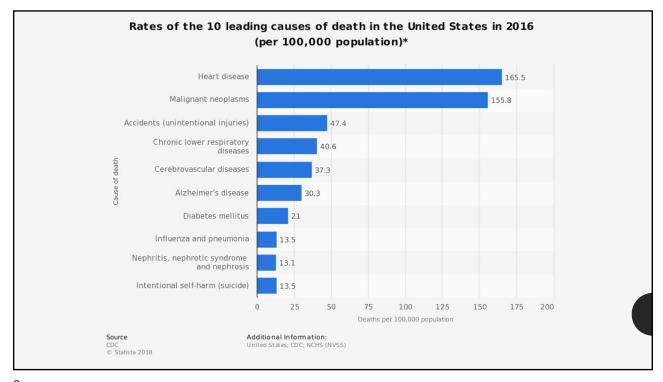
MENU HEALTH FOOD ADVICE CULTURE TRUESTORIES JOKES CONTESTS

CONDITIONS

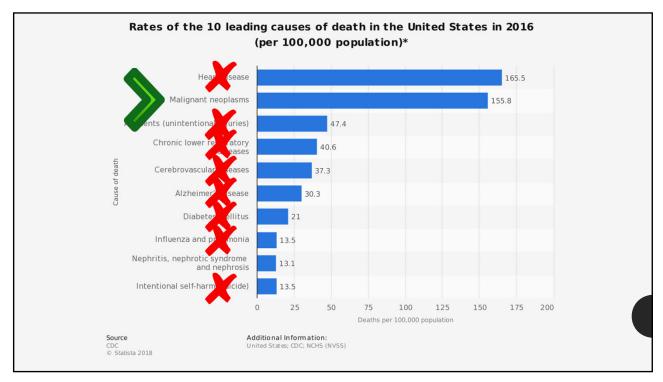
America's Sleep Crisis Is Making
US Sick, Fat, and Stupid. But
There's Hope.

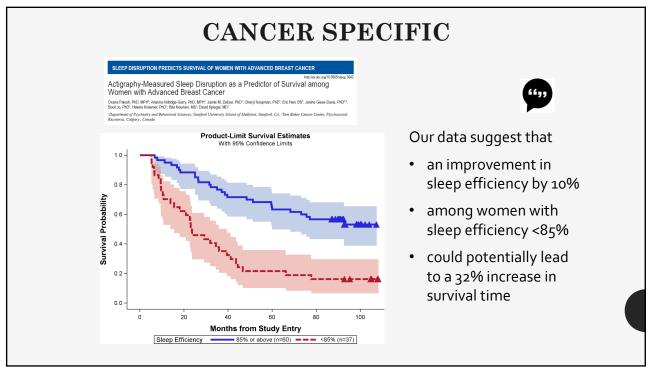
Beth Weinhouse

Sleep deprivation now rivals obesity and smoking as our greatest public health crisis. Here's what everyone (including America's businesses) needs to do to help stop our massive sleep debt and get more shuteye.

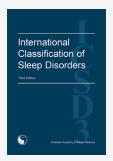








### SLEEP DISORDERS



- Insomnia disorder
- Obstructive sleep apnea
- · Central sleep apnea
- Sleep related hypoventilation disorder
- Sleep related hypoxemia disorder
- Narcolepsy (Type I/II)
- Idiopathic hypersomnia
- Kleine-Levin syndrome
- Delayed sleep-wake phase disorder
- Advanced sleep-wake phase disorder

- Non-24 sleep-wake disorder
- · Shift work disorder
- Jet lag disorder
- · Confusional arousals
- Sleepwalking
- Sleep terrors
- Sleep related eating disorder
- REM sleep behavior disorder
- Sleep enuresis
- Restless legs syndrome

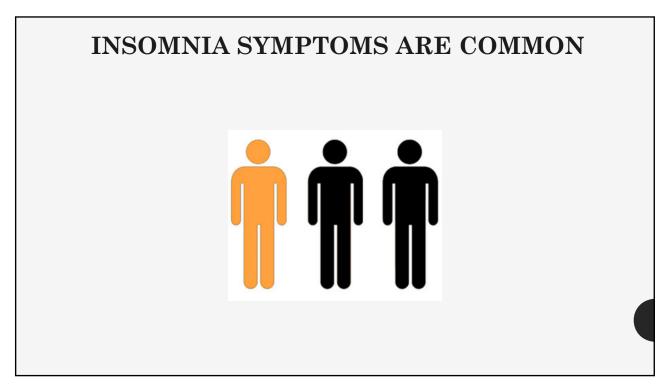
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#### **INSOMNIA**

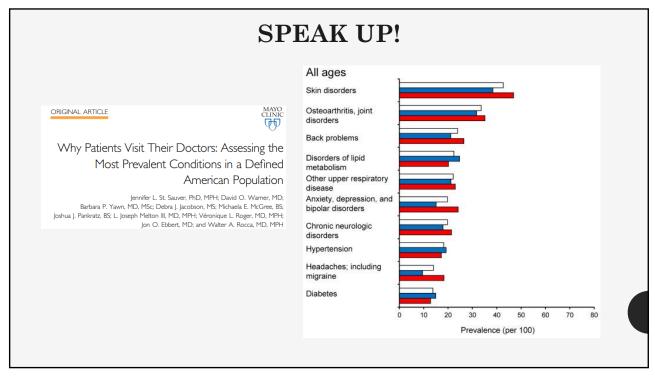
#### Table 1. DSM-V Criteria for Insomnia Disorder

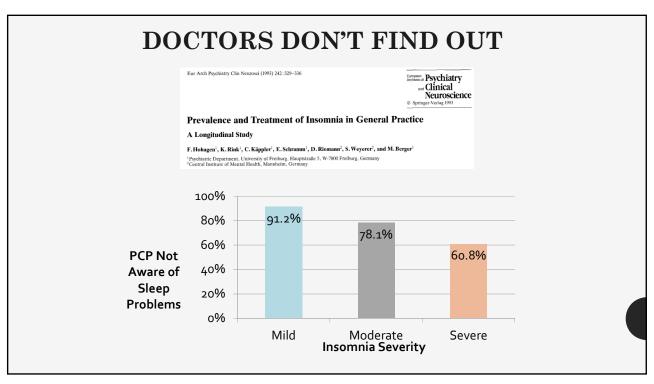
- Complaint of dissatisfaction with quantity or quality of sleep occurs at least 3
  nights a week for at least 3 months, associated with one or more of the following:
  - O Difficulty falling asleep
  - Difficulty staying asleep, with frequent awakenings or difficulty falling back asleep
  - Early morning awakening
- The sleep disturbance causes clinically significant distress or impairment in social, occupational, or other important areas of functioning.
- . The sleep disturbance occurs even when there is enough time for sleep
- The sleep disturbance does not occur exclusively during the course of narcolepsy, breathing-related sleep disorder, circadian rhythm sleep disorder, or a parasomnia (an unusual behavior or event that occurs during sleep that may lead to intermittent awakenings).
- The sleep disturbance does not occur exclusively during the course of another mental disorder
- The sleep disturbance is not due to the direct physiologic effects of a substance such as a drug of abuse or a medication, or from a general medical condition.

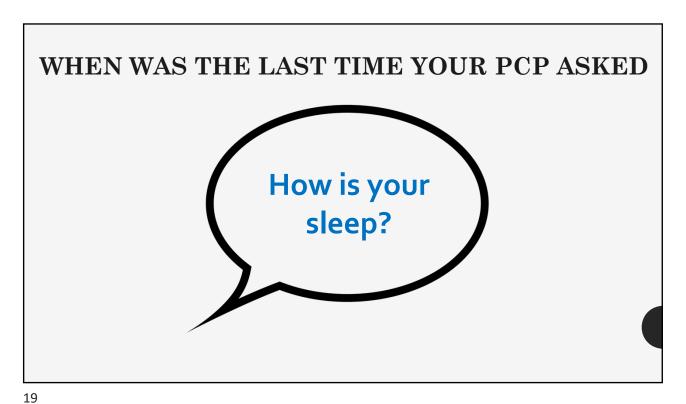
DSM-V, Diagnostic and Statistical Manual of Mental Disorders, 5th Ed.



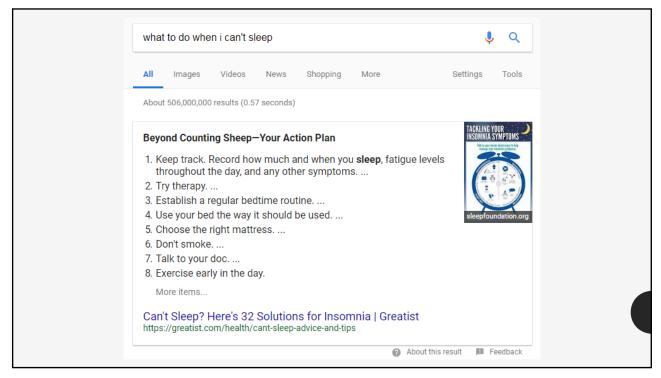


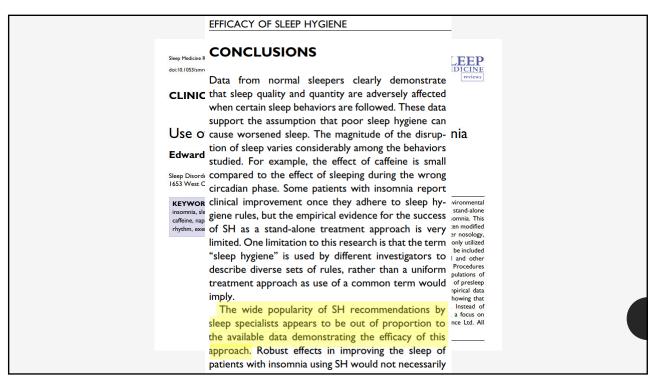


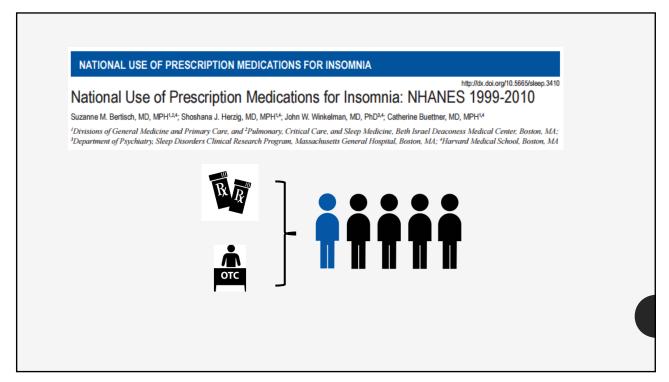














Original Research

Mortality Hazard Associated With Anxiolytic and Hypnotic Drug Use in the National Population Health Survey

Geneviève Belleville, PhD<sup>1</sup>

Objective: Although widely used in the general population, sleeping pills and minor tranquilizers, also known as antianxiety agents, have been associated with undesirable undocroses. Reports about the association of these drugs with an elevated mortality rate are inconsistent and controversial. This study was designed to assess the mortality hazard inconsistent and controversial. This study was designed to assess the mortality hazard can be also associated with a controversial properties of the properties of th

Method: A population-based sample of 14 117 people aged 18 to 102 years participated in a longitudinal panel survey, with data collected every second year from 1994 to 2007. The primary outcome measures reported in this study are self-report use of anxiolytic and hyprotic drugs, and death.

rypnotic rangs, and ceats.

Results: For respondents who reported anxiolytic or hypnotic drug use in the past month the odds of mortality were 3.22 times more (95% CI 2.70 to 3.84) than for those who did not use anxiolytic or hypnotic drugs in the past morth. After controlling for conflounding sociodemographic, illegis, and health factors (recluding depression), the odds ratio was reduced to 1.38 (65% CT 1.09 to 1.70 but remained alignificant.

Conclusion: Solida of unique is associated with a small but significant increase in mortality risk. Further ensearch is required to confirm the mechanisms by which sedative drug use increase mortality risk. Where possible, hybridiscians should systematically consider possibilities for nonpharmacological treatment of sleep disturbances and anxiety.

Can J Psychiatry 20:559(5:556-505).

Original Research Article | Published: 29 August 2012

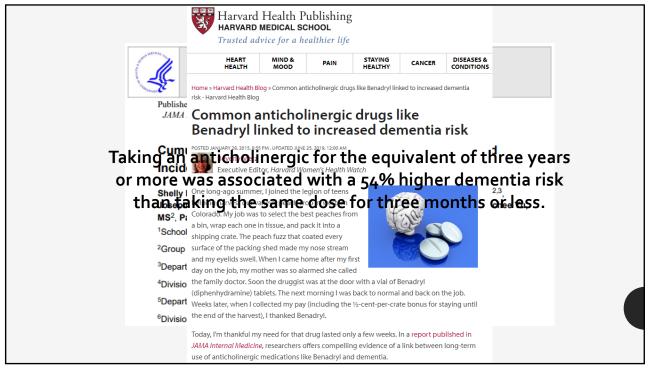
# Cognitive Effects of Long-Term Benzodiazepine Use

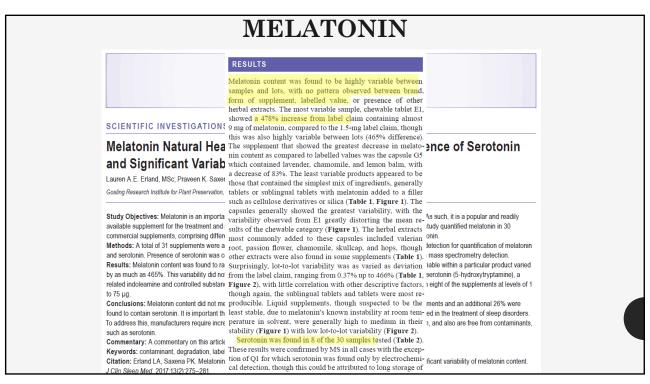
A Meta-Analysis

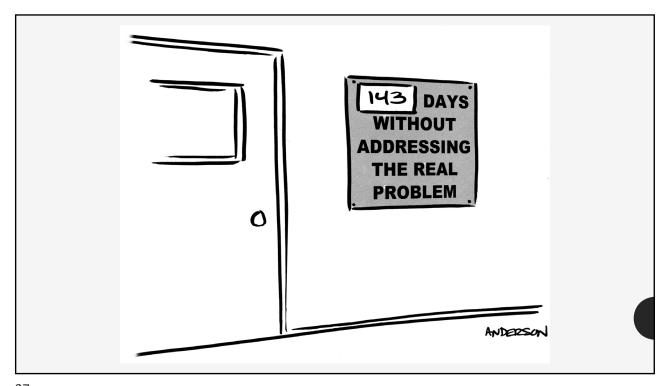
Melinda J. Barker, Kenneth M. Greenwood, Martin Jackson & Simon F. Crowe

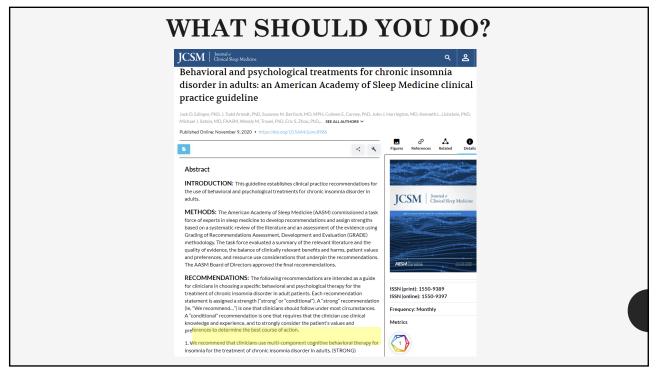
<u>CNS Drugs</u> **18**, 37–48(2004) | <u>Cite this article</u>

2787 Accesses | 330 Citations | 24 Altmetric | Metrics









# WHAT IS CBT-I?



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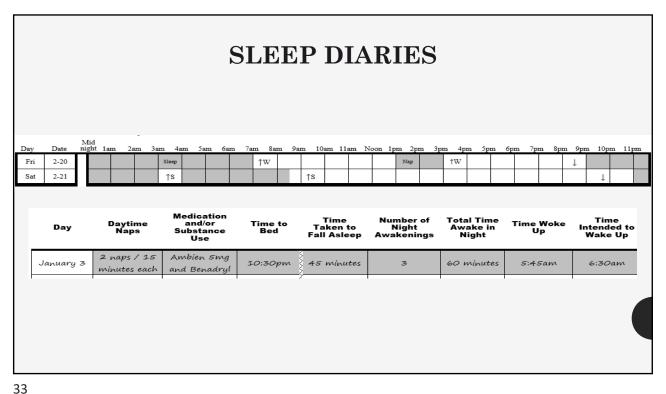
recipe	prep time DIRECTIONS
Sleep restriction	Match time in bed to total sleep duration
Stimulus control	Use bed only for sleep
Sleep hygiene	Improve behaviors that affect sleep
<u>Cognitive therapy</u>	Address maladaptive sleep cognitions
Relaxation	Practice relaxation exercises

## YOUR NEW MANTRA

It's not about tonight.

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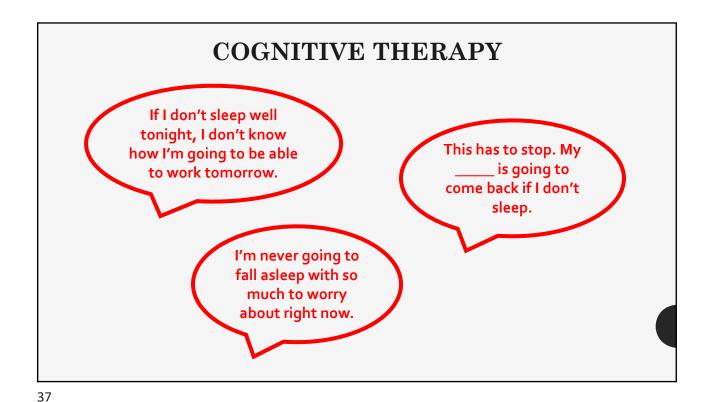






## **SLEEP HYGIENE**

- 1. Eliminate the bedroom clock
- 2. Exercise in the late afternoon/early evening
- 3. Minimize caffeine, alcohol, and nicotine
- 4. Eat a light bedtime snack
- 5. Reduce liquid consumption before bed
- 6. Reduce electronics use



SLEEP OCCURS IN CONTEXT OF LIFE

THE TOTAL STATE OF LIFE

THE TOTAL STA







