# Why Won't You Go To Sleep? Pediatric Insomnia and Its Impact on Families

Satellite Conference and Live Webcast Thursday, May 24, 2012 12:00 – 2:00 p.m. Central Time

Produced by the Alabama Department of Public Health Video Communications and Distance Learning Division

## **Faculty**

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## **Learning Objectives**

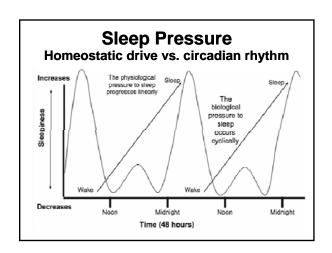
- Discuss the differential for pediatric insomnia
- Describe the epidemiology and significance of pediatric insomnia
- List behavioral interventions of pediatric insomnia
- Explain the impact of pediatric insomnia on families and caregivers

#### Sleep

- Primary activity of the brain during the day in early development
- · Basic function of sleep
  - -Still unknown
  - Required for life, learning, growth
- · Rest is not a substitute for sleep

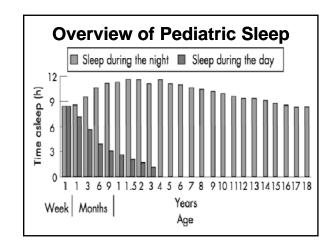
# A Family's Perspective on Sleep

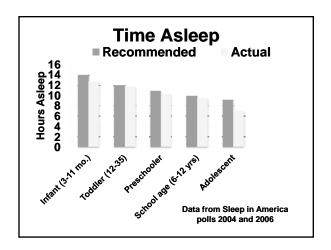
A Discussion with Ellie Frederick, Parent of a Child with Insomnia



## **Overview of Pediatric Sleep**

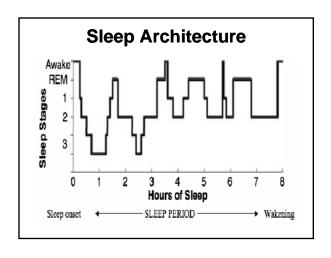
- · Changes as we age
- Napping

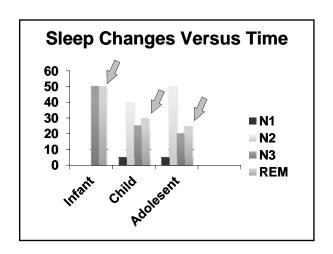




## **Sleep Architecture**

- Active process
- Multiple stages of sleep
- · Varies throughout the night





## **Infant Sleep: 0-2 Months**

- Sleep time: 10-19 hours (average 13)
  - -Naps: Alternating every 1-3 hours
  - -Sleep-wake regulated by satiety
- Sleep Development: Active versus quiet sleep

## **Infant Sleep: 0-2 Months**

- Sleep problems
  - Most are discrepancy between parental expectations and developmentally appropriate sleep

## **Infant Sleep: 2-12 Months**

- Sleep time: 9-10 hours/night
  - -Naps: 3-4 hours

## **Infant Sleep: 2-12 Months**

- Sleep development: sleep as a social behavior
  - -Sleep regulation self soothing
  - -Sleep consolidation
  - -Sleep onset association
  - -Nighttime arousals
  - -Transitional objects

# **Infant Sleep: 2-12 Months**

- Sleep problems
  - Most are discrepancy between parental expectations and developmentally appropriate sleep
  - Behavioral insomnia of childhoodsleep onset association type

# **Toddler Sleep: 12-36 Months**

- Sleep time
  - 91/2-101/2 hours/night
  - -Naps 2-3 hours
    - ~100% of 1 yo and 50% of 3 yo

## **Toddler Sleep: 12-36 Months**

- · Sleep and development
  - -Increase in ambulation
  - -Understand cause and effect
  - -Increased imagination

### **Toddler Sleep: 12-36 Months**

- Sleep issues
  - -Transition to bed from crib
  - -Transitional objects
  - Bedtime routine
- Sleep problems
  - -Bedtime resistance in 25%
  - -Night wakenings (30-50%)

#### **Preschoolers: 3-5 Years**

- Sleep time 9-10 hours/night
  - -Naps decrease from 1 to 0
- · Sleep and development
  - -Capacity to delay gratification
  - -More limit testing
  - -Increased imagination

#### **Preschoolers: 3-5 Years**

- · Sleep issues
  - -Co-sleeping
- Sleep problems
  - Trouble falling asleep (15-30%)
  - -Night wakenings (15-30%)
  - -OSA
  - Parasomnias

## School-aged: 6-12 Years

- Sleep time: 9-10 hours/night
- · Sleep and development
  - -Social anxiety
  - -Schedules may limit sleep time
  - -Media use

# School-aged: 6-12 Years

- Sleep issues
  - -Irregular sleep schedules
  - -Parental presence at bedtime (30%)

## School-aged: 6-12 Years

- Sleep problems
  - -Somnambulism
  - -Bruxism
  - -OSA
  - -Inadequate sleep hygiene
  - -RLS

#### **Adolescents: 13-18 Years**

- Sleep time: 7-9 hours/night
- Sleep and development
  - -Phase delay
  - -Slow sleep drive accumulation

#### **Adolescents: 13-18 Years**

- Sleep issues
  - -Irregular sleep schedules
  - Early school start time

#### **Adolescents: 13-18 Years**

- Sleep problems
  - -Inadequate sleep hygiene
  - -Insomnia psychophysiologic
  - Delayed sleep phase
  - -OSA
  - -Narcolepsy

# **Prevalence of Sleep Problems**

Age	Prevalence	
Infant (0-2 months)	Not well known	
Infant (3-12 months)	25-50%	
Toddlers	25-30%	
Preschoolers	30%	
School-aged	37%	
Adolescents	20%	

## **Diagnosis of Insomnia**

- Complaint of difficulty initiating sleep, maintaining sleep, or waking up too early, or sleep that is chronically non-restorative or poor in quality
- Occurs despite adequate opportunity and circumstances for sleep

#### **Diagnosis of Insomnia**

- At least one of the following forms of daytime impairment is reported:
  - -Fatigue or malaise
  - Attention, concentration, or memory impairment
  - Social or vocational dysfunction or poor school performance
  - Mood disturbance or irritability

## **Forms of Daytime Impairment**

- Daytime sleepiness
- Motivation, energy, or initiative reduction
- Proneness for errors or accidents at work or while driving
- -Tension, headaches, or GI symptoms in response to sleep loss
- -Concerns or worries about sleep

#### **Pediatric Insomnia**

- Subjective difficulty initiating and/or maintaining sleep, early morning awakening, and "non-restorative" sleep
- · History is from caregiver
- Wide diversity in chief complaint
- Should be viewed as a symptom rather than a diagnosis

#### **Pediatric Insomnia**

- Most parents complain of sleep problems at some point in child's life
- "Night wakenings" most common complaint in infancy and early childhood
  - Most children can sleep through night by 6 months of age
  - -25-50% of children waken nightly requiring parental intervention

#### Pediatric Insomnia

- Bedtime refusal occurs in 10-30%
- Anxiety and trouble falling asleep occurs in 15-20% of adolescents

#### Pediatric Insomnia

 Between 3-7% of pediatric outpatient visits were reportedly due to insomnia

#### **Pediatric Insomnias**

- · Behavioral insomnia
  - Sleep Association Type
- · Behavioral insomnia
  - Limit Setting Type
- Psycho-physiological insomnia

# Behavioral Insomnia of Childhood

- Sleep Onset Association Type
  - From the diagnostic criteria:
    - Based on the report of parents or other adult caregivers
    - Falling asleep is an extended process that requires special conditions

# Behavioral Insomnia of Childhood

- Sleep-onset associations are highly problematic or demanding
- In the absence of the associated conditions, sleep onset is significantly delayed or sleep is otherwise disrupted

# Behavioral Insomnia of Childhood

- Night time awakenings require caregiver intervention for the child to return to sleep
- Not better explained by another sleep disorder, medical condition, neurological, metal disorder, or medication use

# **Nightwakenings**

- 25-50% of 9-12 month olds awaken during the night and require parental intervention
- Recurrent, persistent events usually due to inappropriate sleep associations
- Infants usually briefly arouse between 2-6 times per night

## **Nightwakenings**

- May be due to extrinsic or intrinsic factors
  - -Self-soothing skill
  - -Neurodevelopmental factors
  - -Illness

#### **Nightwakenings**

- Parental reactions often central to outcome
  - -Children have brief arousals at night
  - Parental response to crying in night results in reinforcement or extinction of the event

#### **Sleep Associations**

- Sleep onset occurs in a particular setting
- The conditions required for sleep should be present throughout the night to facilitate soothing

## **BIC-SOA Type**

 Child requires sleep regulation at sleep onset and to fall back asleep with nighttime awakenings without parental participation

## **BIC-SOA Type**

- Children with BIC-SOA are not able to self soothe
  - -Cry out in middle of night or visit parental bedroom
- Response helps to reinforce or reduce the behavior

# Factors Associated with Awakenings

- Awakenings increase due to extrinsic and intrinsic factors
- Extrinsic:
  - Parental presence at sleep onset,co-sleeping, feeding child to sleep
  - Medical illness (GERD, URI)
  - -Schedule changes (vacation)

# Factors Associated with Awakenings

- Parental anxiety, maternal depression
- Intrinsic
  - Insecure maternal-child attachment, anxiety

#### **Self-soothing Skills**

- · Develop around 12 weeks of age
- Prior to this child should not be expected to sleep through the night on their own

#### **Happiest Baby on the Block**

- · Central tenet:
  - -Babies need a "4th trimester"
- Developed the 5 S's
  - -Swaddling
- -Swinging
- -Side (or stomach)
- -Sucking
- -Shhh Soothing sound
- The 6th S is sleep

## If You Will Only Go To Sleep

The crimson rose plucked yesterday, the fire and cinnamon of the carnation, The bread I baked with anise seed and honey, and the goldfish flaming in its bowl, All these are yours baby born of woman, if you'll only go to sleep. A rose, I say And a carnation! Fruit, I say! And honey! And a sequined goldfish, and still more I'll give you if you'll only sleep till morning!

~ Gabriel Mistral

# Behavioral Insomnia of Childhood

- Limited Setting Type
  - Characterized by noncompliant behaviors at bedtime
  - Seen most commonly in preschoolers

# Behavioral Insomnia of Childhood

- Commonly caused by caregivers inability or unwillingness to set strict rules and enforce a bedtime
  - Worsened with oppositional behavior

# Behavioral Insomnia of Childhood

- From the diagnostic criteria:
  - Based on the report of parents or other adult caregivers
  - Individual has difficulty initiating or maintaining sleep

# Behavioral Insomnia of Childhood

- Individual stalls or refuses to go to bed at an appropriate time or refuses to return to bed following the nighttime awakening
- Caregiver demonstrated insufficient or inappropriate limit setting to establish appropriate sleeping behavior in the child

# Behavioral Insomnia of Childhood

 Not better explained by another sleep disorder, medical condition, neurological, metal disorder or medication use

#### **BIC-LST**

- Etiologies of bedtime resistance:
  - -Irrational fears due to imagination
  - -Increase in separation anxiety
  - -Medication use
    - Caffeine, prednisone
  - Medical illness
    - · Asthma, RLS

#### **BIC-LST**

- -Intrinsic circadian preference
- Personalities
  - Defiant child, permissive parenting style

# **Epidemiology**

- Disorder of mainly young children (0-5 years)
- Lack of good definitions for research

# **Epidemiology**

- Prevalence studies
  - 20-30% of US children have significant bedtime refusal or awakenings
  - -Up to 50% of infants continue to have awakenings beyond 6 months
  - Bedtime resistance in 15-20% of toddlers

#### **Clinical Assessment**

- Diagnosis of BIC based on parental report
- · Comprehensive evaluation including
  - -Current sleep pattern
  - -Sleep duration
  - -Sleep/wake schedule
  - -Sleeping arrangements

#### **Clinical Assessment**

- -Bedtime routine
- -Parental behavior and responses
- Medical evaluation for sources of pain or reflux

#### **Treatment**

- Based on the AASM Practice Parameters 2006
- Behavioral interventions are effective and are the recommend treatment of BIC
  - -Based on 52 studies (9 RCT)
  - -94% demonstrate behavioral intervention resulted in clinically significant improvement

#### **Behavioral Interventions**

- Unmodified extinction
- Graduated extinction
- Positive routines/faded bedtime with response cost
- Scheduled awakenings
- Parent education/prevention

#### **Unmodified Extinction**

- First studied in 1959 by Williams
- Child is placed to bed at a set bedtime
- · Child is ignored until morning
  - Parents monitor child for safety or illness

#### **Unmodified Extinction**

- Goals
  - Eliminate parental response as a reinforcer
  - -Teach self-soothing skills

#### **Graduated Extinction**

- Devised by Rolinder and Van Houten in 1984
- Parents ignore bedtime crying and tantrums for pre-determined time periods before briefly checking on the child
  - Progressive or fixed checking schedule is used

#### **Graduated Extinction**

- Goal
  - Develop self-soothing skills and fall asleep independently without inadequate sleep associations

#### Richard Ferber, MD

- Published in 1985
- Targets infants at 4 months and up

#### **Ferber**

- Ferber method
  - -Fixed bedtime routine
  - -Laying child down awake but drowsy
  - Graduated extinction
- Criticized for "crying it out" and emotional scarring

## Attachment Parenting and "No-cry Sleep Solution"

- Two key references
  - -Baby Sleep Book (William Sears)
  - Secrets of the Baby Whisperer (Tracy Hogg, RN)
- Not referenced in the current AASM guidelines

# **Extinction with Parental Presence**

- Similar to graduated extinction
  - Child placed in bed drowsy and allowed to cry
  - Parents remain in the room, but comfort after progressively longer durations

#### Extinction with Parental Presence

- Procedure more popular in England, but rising in popularity in U.S.
- Four studies of 290 children found it to be effective

#### **Positive Bedtime Routine**

- Developing a set bedtime routine that is enjoyable, quiet activities to establish a "bedtime behavior chain" to sleep onset
- First described by Milan in 1981

#### **Positive Bedtime Routine**

- · Two studies since:
  - -Conclude this is rapid and effective
  - May reduce the post-extinction burst

# Faded Bedtime with Response Cost

- Temporarily delaying bedtime to coincide with child's natural sleep onset
  - Then fading earlier as child get "better" at falling asleep

# Faded Bedtime with Response Cost

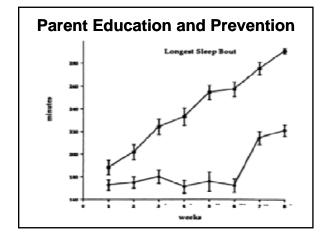
- Response cost
  - Taking the child out of bed for prescribed, brief periods if child does not fall asleep
- Behavioral underpinning is sleep restriction and stimulus control
  - -Similar to adult insomnia treatment

# **Scheduled Awakening**

- Described by McGarr and Hovell in 1980
- Parents pre-emptively wake child prior to a typical nocturnal awakening and providing the usual response as if child had woken spontaneously

## **Scheduled Awakening**

- Requires documentation of typical awakening time
- May not be acceptable to parents



#### **Parent Education and Prevention**

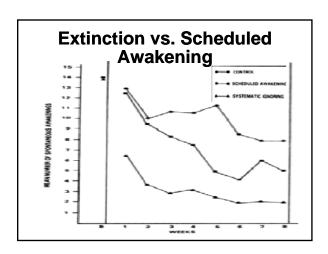
- Based on 5 large studies
- Parents receive education about sleep education and prevention strategies during the first 6 months of life

# Effectiveness of Behavioral Interventions

- 94% of studies report clinically significant reductions in bedtime resistance and night awakenings
- 11 studies (RCT) demonstrates strong support for
  - -Extinction
  - Parental education/prevention

# Effectiveness of Behavioral Interventions

- Support shown for:
  - -Graduated extinction
  - -Scheduled awakenings
  - -Bedtime fading



# Extinction vs. Scheduled Awakening

- 33 infants randomly assigned to group
  - Extinction, scheduled awakening, or control

# Sleep Associations Substitutions

- · Transitional objects can be used
- Must be an object that will remain with the child during the duration of the night



## **Psychophysiologic Insomnia**

- · Often referred to as "insomnia"
  - May be at sleep initiation or sleep maintenance
- Occurs in older children, adolescents, adults

# Psychophysiologic Insomnia

- · Characterized by:
  - -Learned sleep preventing associations
  - Heightened physiological arousal
- Complaint of daytime sleepiness

# Diagnosis of Psychophysiologic Insomnia

- Insomnia present for at least 1 month
- · Meets criteria for insomnia
- Patient has evidence of conditioned sleep difficulty or heightened arousal in bed as indicated by one or more of the following:

# Diagnosis of Psychophysiologic Insomnia

- Excessive focus on and heightened anxiety about sleep
- Difficulty falling asleep in bed at the desired bedtime or during planned naps, but no difficulty falling asleep during other monotonous activities when not intending to sleep

# Diagnosis of Psychophysiologic Insomnia

- Ability to sleep better away from home than at home
- Mental arousal in bed characterized by either intrusive thoughts or a perceived inability to volitionally cease sleep-preventing mental activity

# Diagnosis of Psychophysiologic Insomnia

- Heightened somatic tension in bed reflected by perceived inability to relax the body sufficiently to allow the onset of sleep
- Not better explained by another sleep disorder, medical or neurological disorder, mental disorder, medication, or substance abuse

#### 3 "P's" of Pediatric Insomnia

- Predisposing
  - -Genetic vulnerability
  - -Underlying medical illness
  - -Personality traits
- Precipitating
  - -Stress

#### 3 "P's" of Pediatric Insomnia

- Perpetuating
  - -Poor sleep habits
  - -Caffeine use
  - Maladaptive cognitions about sleep

## **Poor Sleep Habits**

- · Excessive time in bed
- Blue light exposure
- Daytime napping
- Irregular sleep-wake exposure
- Caffeine use

#### The 24/7 Lifestyle

- 100 adolescents (12-18 years old) in Philadelphia studied 2007-2008
  - -Median household income \$53,000
    - 66% had TV in bedroom
    - 90% had cell phone
    - 79% had MP3 player
  - Engage in 4 electronic activities after 9:00 pm

#### The 24/7 Lifestyle

- -85% report drinking caffeine
  - Median intake 144 mg
    - -27% less than 100 mg/day
- -Sleep
  - 79% had <8 hours sleep
  - 33% fell asleep during school

## **Maladaptive Sleep Cognitions**

- Beliefs and attitudes about sleep and the consequences of missed sleep that are incorrect and limit relaxation prior to sleep
  - -"I will never be able to fall asleep tonight."
  - -"If I don't fall asleep, I will sleep through my alarm, miss my test, and fail the 11th grade."

# Epidemiology of Psychophysiologic Insomnia

- Studied 1,014 adolescents (13-16 years)
  - -11% met DSM-IV criteria for insomnia over lifetime
    - 12% reported difficulty initiating sleep
    - 5% reported difficulty maintaining sleep

# **Epidemiology of Psychophysiologic Insomnia**

- 8% reported non-restorative sleep
- -Prevalence was 9%
- -Increased insomnia with lower SES

# Epidemiology of Psychophysiologic Insomnia

## **Differential Diagnosis**

- Transient insomnia
- · Delayed sleep phase
- Inadequate sleep hygiene
- RLS/PLMS
- OSA

## **Differential Diagnosis**

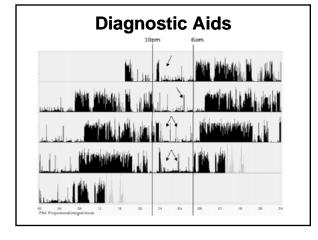
- Psychiatric disorder
  - -Anxiety
  - -Depression
- · Asthma, allergies
- Headaches

## **Diagnostic Aids**

- Sleep diaries
  - Demonstrate prolonged sleep onset and nighttime awakenings
- Actigraphy
  - Document prolonged periods of wakefulness
  - May see sleep state misperception

## **Diagnostic Aids**

- Polysomnography
  - -Not indicated



#### **Treatment**

- · Behavioral interventions
  - -Sleep hygiene
  - -Stimulus control
  - -Sleep restriction
  - -Cognitive restructuring
  - -Relaxation
- Medications

#### Sleep Hygiene

- Sleep in a cool, dark, quiet environment
- Consistent sleep schedule
- Avoid naps
- Avoid caffeine
- Remove electronics from the room
- Relaxing bedtime routine
- Consistent morning wakening

#### **Stimulus Control**

- Stopping activities in bed that are not conducive to sleep
  - Television, computer, homework, worrying
  - -Cues for wakefulness not sleep
- Use bed only for sleeping

#### **Stimulus Control**

- Go to bed when drowsy
  - If not asleep within 15-20 minutes, get out of bed
  - -Do a quiet, non-stimulating activity

## **Sleep Restriction**

- Limit the time in bed to 6-7 hours
  - Allows consolidation of sleep, disrupt previous sleep associations
  - Set initial restriction to the amount of sleep

# **Sleep Restriction**

- Keep accurate record of time in bed and time asleep
- Once sleep efficiency greater than 85%, increase time in bed

# **Cognitive Restructuring**

- Cognitive-behavioral technique
- Teaching to counter inappropriate thoughts
- Three-step process
  - -Identify the inappropriate sleep cognition

## **Cognitive Restructuring**

- Challenging validity of sleep cognition
- Replacing thought with a more productive one

#### Relaxation

- Learned strategies to help cope with anxiety, stress, or intrusive thoughts
  - Progressive muscle relaxation
  - Deep breathing exercises
  - -Visual imagery
  - Biofeedback
  - Meditation

## **Inpatient Insomnia**

- Multi-center study
  - -Found 6% of all hospitalized children (3% of all children excluding psychiatric disease) were given medication for insomnia in hospital

## **Inpatient Insomnia**

Medication	Percentage given (ALL)	Percentage given (No psych)
α-agonist	10.4%	4.5%
Antidepressant	5.9%	3.0%
Antihistamine	36.6%	39.1%
Antipsychotic	16.4%	3.4%
Benzodiazepines	19.4%	38.0%
Chloral hydrate	4.0%	7.1%
Nonbenzodiazepines	2.2%	2.3%
SSRI	5.1%	2.6%

# **Outpatient Use of Hypnotics**

- Survey mailed to 3,424 members of AAP in 6 U.S. cities
  - -3-7% of visits were due to insomnia
  - Percentage of physicians who reported using these medications for insomnia in past 6 months

# **Outpatient Use of Hypnotics**

Medication	0-2 y	3-5 y	6-12 y	≥13 y	Any age
α-agonist	2	11	28	19	31%
Antidepressant	-	1	7	15	16%
Antihistamine	16	17	19	15	29%
Antipsychotic	0.45	1	5	5	8%
Benzodiazepines	1	2	7	9	12%
Chloral hydrate	7	6	6	2	12%
Nonbenzodiazepines	-	-	1	8	8%

#### **Medications**

- There are currently no medications approved by the Food and Drug Administration for the treatment of insomnia in children or adolescents
- British National Formulary
  - -"The prescribing of hypnotics to children...is not justified."

#### **Off-label Information Ahead**

# Medications Used for Insomnia

- Melatonin
- Clonidine
- Antihistamines
- Benzos
- Non-benzos

#### Melatonin

- Hormone secreted by pineal glandin response to darkness
- Entrains the circadian rhythm
- Mild hypnotic
- Level peaks 1 hour after administration

#### Melatonin

- Effects in normally developing children
  - -Improve sleep latency and quality of life
  - -No impact on total sleep time

#### Melatonin

- · Potential side effects
  - Suppression of hypothalamicgoandal axis, increased reactivity of immune system

#### Melatonin

- In children with epilepsy, autism, and learning disability
- Meta-analysis showed improved sleep latency and total sleep time

#### Melatonin

- Placebo controlled trial of 5mg in children with neurodevelopmental delay
  - -Improved sleep onset by 30 minutes
  - -Improved total sleep time
  - Decrease in awakenings

#### Clonidine

- α2-agonist: decreases adrenergic tone
  - -Onset in 1 hour, peak in 2-4 hours
  - -Shorten sleep latency in ADHD
  - -Decrease in REM and SWS
  - -Tolerance may develop

#### Clonidine

- -Side effects
  - Hypotension, bradycarda, irritability, dysphoria, anticholinergic effect, rebound hypertension
  - Avoid in patients with Raynaud's or diabetes
  - Narrow therapeutic window
    - -Cardiotoxicity

#### **Antihistamines**

- Most commonly prescribed meds for insomnia
- Acts on central histamine receptors
- Rapid absorption

#### **Antihistamines**

- · Potential side effects
  - Anticholinergic effect
  - Daytime drowsiness
  - Paradoxical excitation
  - -Tolerance occurs

### **Antihistamine Efficacy**

- 1976 study
  - Demonstrated a small reduction in sleep latency, decrease in awakenings, total sleep time with a 1 mg/kg dose

## **Antihistamine Efficacy**

- Trial of Infant Response to Diphenhydramine (TIRED) Study (2006)
  - -44 children from 6 to 15 months
  - -1 mg/kg prior to bedtime
  - No difference between diphenhydramine and placebo in reducing night awakenings

#### Benzodiazapine Receptor Agonists

- Act at γ-aminobutyric acid receptor
- · Acts to shorten sleep latency
- · Increases total sleep time
- Improve non-REM sleep maintenance

## Benzodiazapine Receptor Agonists

- Risk of habituation, compromised daytime function, and addiction
- Very limited use in children and adolescents

# Nonbenzodiazepine Receptor Agonists

- Preferentially bind to GABAA receptor complex with α1-subunits
- Sleep impact
  - Decrease sleep latency
  - -May increase SWS

### Nonbenzodiazepine Receptor Agonists

Medication	Half-life	Side Effects
Zaleplon	1 hour	Anterograde amnesia, confusion, hallucination
Zolpidem	2-3 hours	Parasomnias, hallucination
Ezopiclone 6 hours		Unpleasant taste, headache

#### **Impact on Family**

- Maternal depression has been linked to poor infant sleep
  - As many as two-thirds of mothers with depression report an infant sleep problem at 6-12 months
  - Independent risk factor for maternal depression
    - Odds ratio of 2.13 (CI 1.27-3.56)

#### Impact on Family

- Marital satisfaction improves as infant sleep improves
- Childhood insomnia is linked to decreased readiness for school
- Childhood insomnia is linked to increased familial stress

## **Impact on Family**

- Behavioral intervention to improve child sleep associated with improved parental satisfaction
  - Parents report improved interaction with their children, more time to spend with spouse/significant other, less bedtime struggles with child

# A Family's Perspective on Sleep

A Discussion with Ellie Frederick, Parent of a Child with Insomnia

#### **Books of Insomnia**

- For Families and Caregivers
  - Owens, J and Mindell J. (2005)
     <u>Take Charge of Your Child's Sleep</u>.
     New York: Marlowe
- For Healthcare Professionals
  - Mindell J and Owens J. (2010) A
     Clinical Guide to Pediatric Sleep:
     Diagnosis and Management of
     Sleep Problems. Philadelphia, PA