

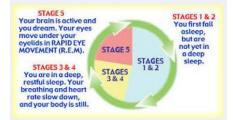


- □ Sleep as a foundation for function
 - As you sleep, the brain is providing biological maintenance (detoxification)
 - Sleep plays a role in memory and learning
 - Sleep affects mood, motivation, judgment and perception
 - Stages and benefits of sleep (REM Rapid Eye Movement)
 - Sun releases serotonin while darkness releases melatonin

	Description	Body response
Stages		
Non REM Sleep	Body repairs/regrows tissue	
	Builds bone/muscle	
	Strengthens immune system	
Stage 1	Transition stage lasting about 5 minutes	Muscle activity slows down, theta waves
Sleep tranistion		
Stage 2	True sleep lasting 10 to 25 minutes	Eye movement stops, heart rate slows, body
Light sleep		temperature decreases, brain activity - sleep spindles
Stage 3 / 4	Difficult to awaken during this stage	Blood flow is directed from brain to muscles, restoring
Deep sleep	Bedwetting/sleepwalking are most likely to occur	energy. Hormones are released. Delta waves
	towards the end of this stage	
REM sleep	Occurs 70-90 minutes into sleep	Breathing shallows, heart rate/ blood pressure
Dream state	Restores brain	increases, eyes move rapidly. Arm/leg muscles are
	Reset- clears "junk mail"	paralyzed
	Captures memories allowing learning to take place	

Sleep requirements

Newborn to 2 months	12-18 hours
3 months to 1 year	14-15 hours
1 to 3 years	12-14 hours
3 to 5 years	11-13 hours
5 to 12 years	10-11 hours
12 to 18 years	8.5 to 10 hours
Adults (18+)	7.5 to 9 hours
Neurotypical brains	At least 11 hours



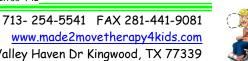
- Strategies to facilitate nature made sleep patterns
 - Avoid glowing box technology 2 hours before bedtime. Eliminate TV in child's bedroom. Place cell phone in another room.
 - Avoid caffeine and heavy meals before bed
 - Deep breathing as you lie down take deep cleansing breaths allows 7-10 seconds for inhalation/exhalation
 - Magnesium powder calms nerves and relaxes muscles)consult your physician)
 - Warm Almond milk has calcium which helps production of melatonin
 - Rhythmic Entrainment Intervention www.stronginstitute.com
 - Essential oils have a powerful calming effect on the limbic system in the brain
 - Lavender oil promotes relaxation
 - Roman Chamomile can reduce anxiety/restlessness and stress. Aids with insomnia
 - Ylnag Ylang improves quality of sleep
 - Essential oil blends designed for sleep www.youngliving.com

Reflex patterns

- Abdominal reflex pattern turns to brain off
- Supporting reflex patterns
 - Moro and fear paralysis these patterns are protective patterns that work against the production of melatonin. Embracing squeeze can calm these patterns
 - Tonic Labyrinth release of sacrum allowing fluidity with cerebro spinal fluid movement
 - Spinal galant and spinal pereze when hyperactive there is increased sensitivity preventing efficient natural sleep
 - Flying and landing and landau produce serotonin which can trigger balance through breathing and allow natural release of melatonin at night

Williamson AM, Feyer AM. (2000) Moderate sleep deprivation produces impairments in cognitive and motor performance equivalent to legally prescribed levels of alcohol intoxica Medicine. 57(10):649-655

Cajochen C, Frey S, Anders D, et al. (2011) Evening exposure to a light-emitting diodes (LED)-backlit computer screen affects circadian physiology and cognitive performance. Journ Cain N, Gradisar M. Electronic media use and sleep in school-aged children and adolescents: A review. Sleep Medicine. 11:735–742 http://www.helpguide.org/articles/sleep/how-ma h-sleen-do-vou-need htm



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