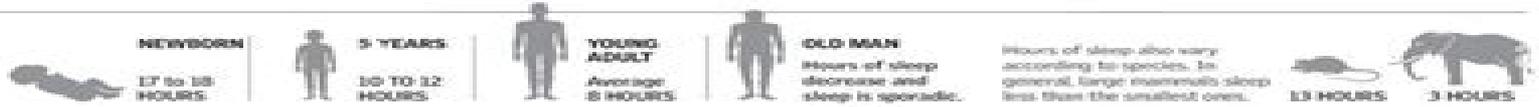


Dream

Scientists distinguish two main stages occurring while a person sleeps. Both happen during the night and have various biological functions.

Hours of sleep needed per day vary according to age.



CYCLES

There are two stages: NREM, consisting of 4 stages, and REM. These occur follow one another cyclically between 4 and 5 times per night.

Wakefulness 1 CYCLE It lasts between 70 and 130 minutes



After REM sleep, a state similar to phase 1 follows or directly to that one of the wakefulness. In general, this is the reason why people have memories of the dream.

As a night progresses, the amount of REM sleep increases while that in NREM decreases.



STAGE NREM

No Rapid Eye Movement

No rapid eye movement stage

This stage is believed to have an important role in organic brain regeneration. It is divided into 4 phases according to the depth of sleep.

Level of depth
WAKEFULNESS

PHASE 1

Eyes are closed and they move slowly. Brain activity is slower.

Breathing becomes uniform and muscles relaxed.

Each eye makes rapid movements moving along the horizontal axis.



REM

Breathing becomes irregular. Rapid eye movements occur and a high brain activity.

REM STAGE

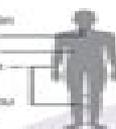
Rapid Eye Movement

Rapid eye movement stage

This stage is believed to promote the recuperation of mental processes, such as fixing the attention, conscious mechanisms and cognitive skills.

At this stage dreams occur.

There is a drop in muscle tone, in the neck, in the shoulders and in the limbs.



Level of depth
WAKEFULNESS

REM PHASE
5-30 MIN

PHASE 1
30 sec-5 min

PHASE 2
1 hour

PHASE 3&4
70-90 min

PHASE 2

Eye movements disappear and the muscle tone drops.

The thalamus blocks the sensory input.

The thalamus generates disconnection from the environment

TACTILE STIMULATION

SLEEP DISORDERS

Sleep disorders can be caused by several reasons (glandular dysfunctions, stress, etc.) and they affect behavior and concentration skills.

INSOMNIA

Insomnia means difficulty with falling or staying asleep. Concentration and reaction time decrease during the hours of awake.

OBSTRUCTIVE APNEA

An obstruction of the airway prevents you completing the sleep stages and cause a daytime sleepiness and vascular diseases.

MARCOLEPSY

The persistent daytime sleepiness with frequent loss of muscle tone is generally linked with a strong emotional reaction.

NOCTURNAL EPISODES

Enuresis (urinary incontinence), walking and talking while sleeping, nightmares are examples of these discomforts.

Dreaming Brain

**Daniel L. Schacter, Daniel T.
Gilbert, Daniel M. Wegner**



Dreaming Brain:

Dreaming Brain Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Dreaming Brain**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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