SBI4U Viewing sheet: Sleepless in America

/ KEY/

What major incidents do experts believe sleep deprivation played a role in?

Major train decailments, accidents on highways,

the Exxon Valdez oil spill, Three Mile Island nuclear meltdown

2. What is our circadian rhythm?

a cycle mediated by the pineal gland and melatonin
that regulates our sleep/wake cycle; roughly corresponds
to our 24 h day.
According to the documentary, how have the sleeping habits of North Americans changed
over the past fifty years?

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We're sleeping = 2 hrs. less than previous generations 40% of adults are sleep deprived, 70% of adolescents

How does short or disrupted sleep directly impact our health?

Affects immune system - immunity presistance drop Can quickly lead to pre-diabetés symptoms

5. How does **REM** sleep differ from Non-REM sleep?

dreaming

> deepest sleep, reviewing memories of the day clearance of beta amyloids

6. What is one of the reasons that adolescents are chronically sleep deprived?

school start times conflicting with circadian rhythms.

7. What does the documentary present as arguments for a later start to the school day?

Later starts -> I test scores, stronger immunity = better attendance to rates of depression/anxiety 70% fewer

8. What is sleep apnea? What risks does it come with? How is it treated?

A cessation of breathing caused by collapsing upper airways, small a.w. (due to genetics & obesity) Risks of stroke, heart attack cleath.

Treated Tre

How are the amygdala and frontal cortex related to sleep deprivation?

the two stop communicating,

emotions emotional

control/Restraint

irritable, emotionally quick to react

car crashes

10. What do researchers find is the connection between sleep and mental health? They can be triggered by being underslept. 11. What is the single most common sleep disorder among adults? In somnia 12. Do people sleeping together sleep better or worse than sleeping apart? due to constant * yet people surveyed almost invariably say they motion/interruptions prefer sleeping in their partner 13. What is insomnia? What are its most common treatments? What risks accompany this? an inability to get to sleep or staying asleep Sedatives (can create dependencies/addictions) hypnosis 14. What are some ways your body and brain benefit from sleep? - may stimulate creativity - better learning + memory -"refreshes" our C-V. system (as pressure drops, blood filtered) - "rebalancer" emotions - boosts immunity - regulates cell metabolism 15. What are some ways you can improve your sleep? -cool temp-bedroom - Routine: Keep a regular bedtime - a dark, quiet voon helps - avoid late caffeire, big meals, alcohol - can't sleep? Get out of bed + do something (boring fasks are especially helpful)