### **VCH Safety Summit: Reflections on COVID**

#### 2021 JOHSC conference

September 15, 2021

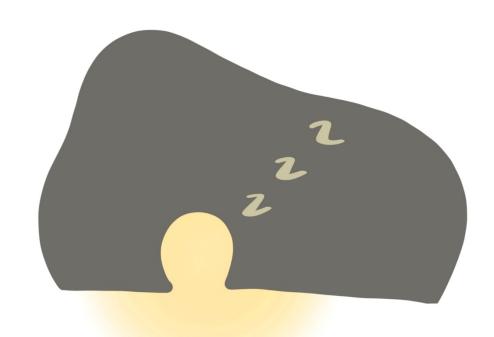
Virtual experience







**Inactivity Theory** 





### **Energy Conservation Theory**

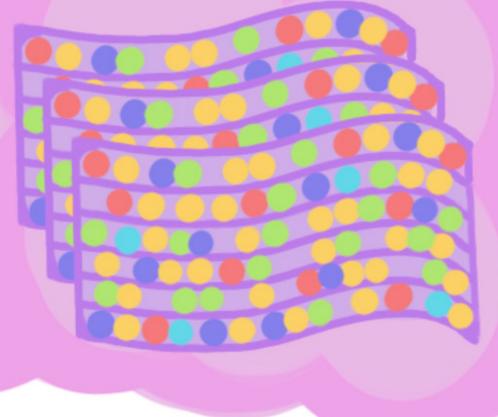








**Brain Plasticity Theory** 





### How many hours do Canadians sleep each night?

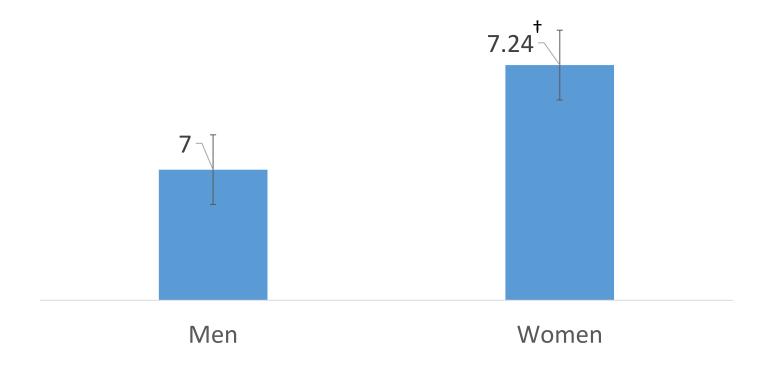


Figure 1. Mean hours of sleep per night for Canadians aged 18-64 from 2007-2013 (†p < 0.05)



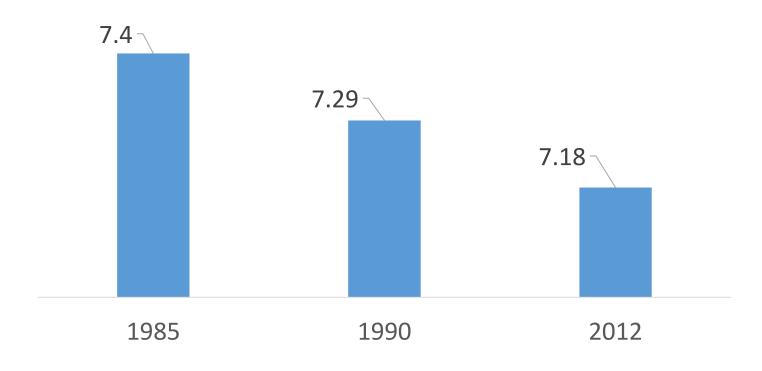
50%

44%

Have trouble falling/staying asleep

Don't find their sleep refreshing

### We have been losing sleep



**Figure 2.** Mean hours of sleep per night for US adults aged  $\ge$  18y in 1985, 1990, and 2012 (p 2012 versus 1985 < 0.001)



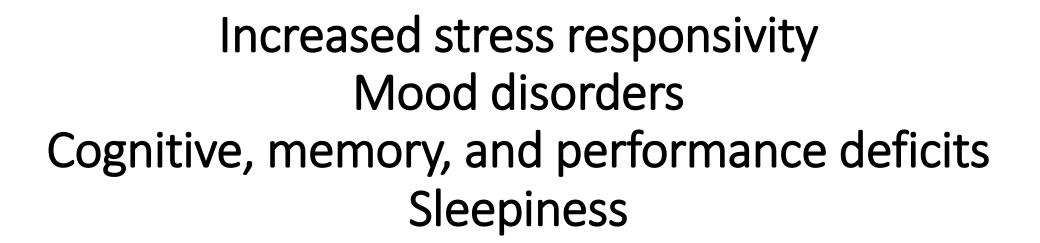
### We have been losing sleep





# What happens if we don't sleep enough?

**Short Term** 



## What happens if we don't sleep enough?

Long Term

Hypertension (high blood pressure)
Cardiovascular disease
Weight related issues
Type 2 diabetes
Colorectal cancer



Occup Environ Med. 2000 Oct; 57(10): 649-655.

doi: 10.1136/oem.57.10.649

Moderate sleep deprivation produces impairments in cognitive and motor performance equivalent to legally prescribed levels of alcohol intoxication

PMCID: PMC1739867

PMID: <u>10984335</u>

A Williamson and A. Feyer





## Sleep Deprivation vs Cognitive & Motor Performance



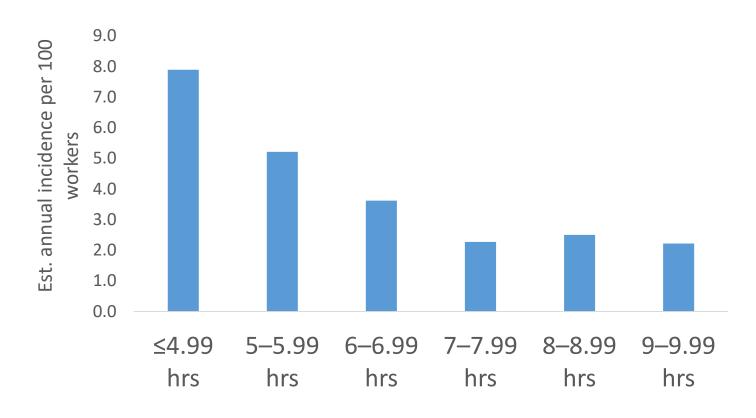
0.05%
BAC

Being awake for over 17 hours

0.10%
BAC

Being awake for over 24 hours

### More injuries at work



**Figure 3.** Estimated annual injury incidence per 100 workers by usual daily sleep duration





How can we get more higher quality sleep?

### Decrease screen time before bed



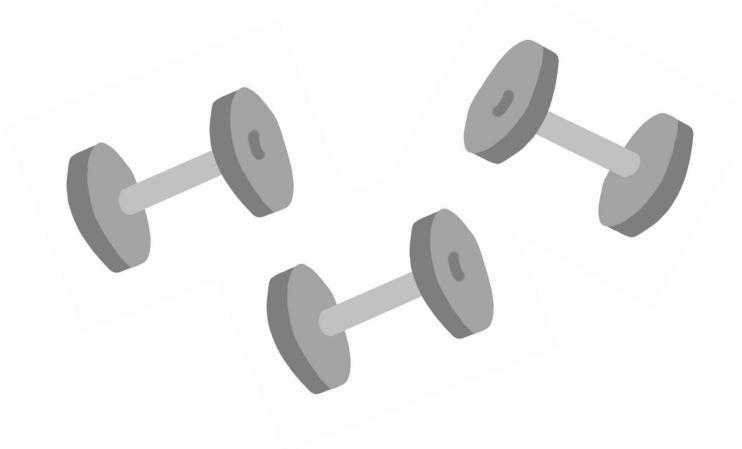


# Try to go to sleep at the same time each night



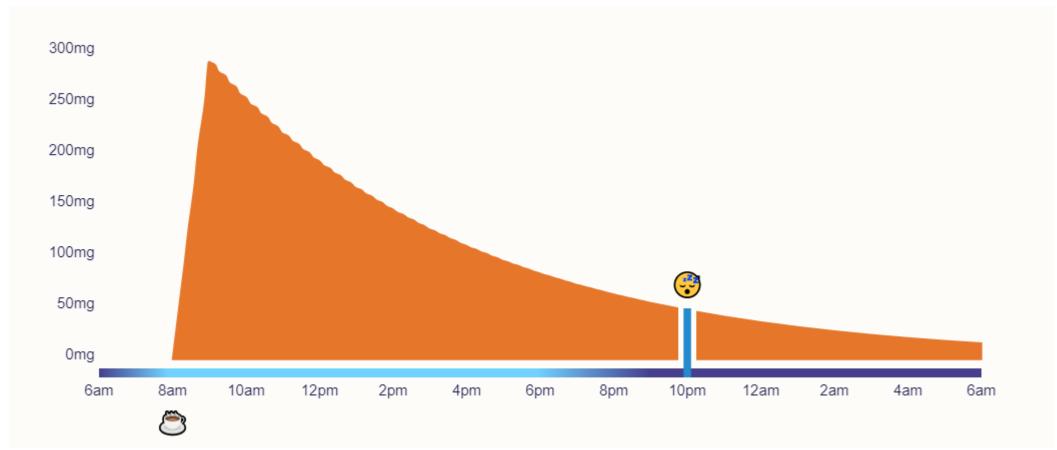


### Exercise regularly



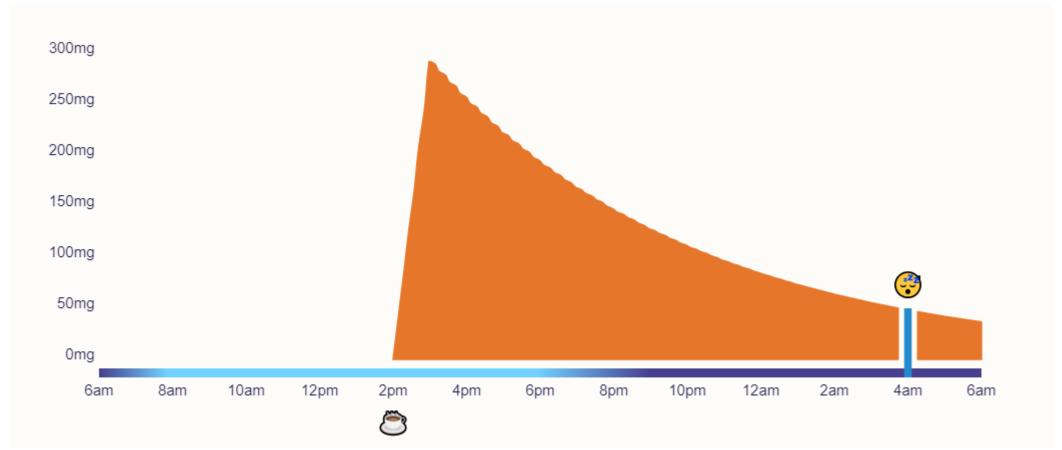




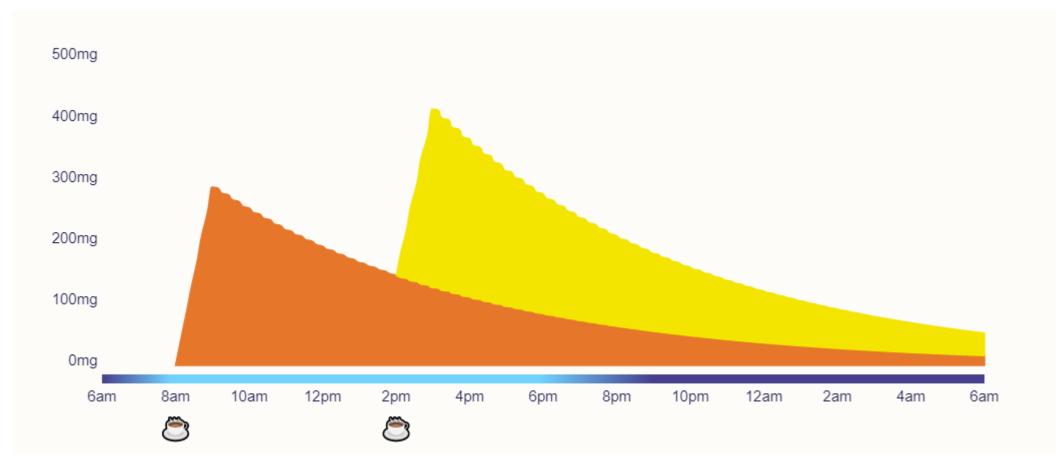














### Now go on and sleep!



### Thank You

